THE TIMES
Higher Education
SUPPLEMENT

# Job experience schemes 'should cover colleges'

by Peter Wilby

School work experience programmes should be extended to further and higher education, says the National Union of Students.

The proposal is made in the union's response to the Government's Green Paper on education. "Work experience", says the NUS, "should take place within broad educational programmes, in which preparation for work is seen as an essential part of the individual's total preparation for life."

The union calls for a new education Act dealing with the needs of all young people. "The objective should be to secure a situation in which young workers can be 'released' to continue their education and young people in education 'released' to practical work experience situations."

The NUS criticises the Green Paper for "hopeless complacency" over job opportunities for women. "An NUS study of higher education and student employment, to be published shortly, reveals that for university graduates in 1976 sex was a more important determinant of the employment they entered than was their subject of study.

"Areas such as teaching, and personnel and welfare are overwhelmingly regarded as women's work, whereas financial work—such as accountancy—is still seen largely as the prerogative of men", says the NUS.

The union says that redundant colleges of education should be adapted to meet the schools' needs for advice on curriculum renewal and for research into curriculum objectives. They could also be developed into centres for training and courses for unemployed school leavers. Specific grants, fixed separately from the rate support negotiations, are necessary to protect in-service training and unemployed school leaver courses, says the union.

● About 63,000 extra teachers would be needed in England and Wales to fulfil the Government's policy of reducing class sizes to under 30, Mr Peter Ashby, deputy president of the National Union of Students told the union's teacher education conference in Edinburgh this week.

But the teacher supply section of the Education Green Paper was a studied exercise in political deceit. Few people in education recognised the dimensions of the impending attack, in terms of redundancies and school closures.

The Green Paper spoke of maintaining staffing standards, and of 63,000 teachers being available by the mid-80's to improve staffing standards. Mr Ashby said that by maintaining the teaching force at its present level the Government could by the mid-80s, fulfil its policy of cutting classes to below 30.

But by maintaining present staffing standards over a period when the school population would fall by 2.2 million it was promising redundancies. The major political fight in the next few years would be against Government attempts to secure voluntary or enforced redundancies.

There was a danger, he added, that a further source would be driven between qualified and trainee teachers. And that forced into a defensive posture teachers would accept undesirable options such as teaching, fixed-term contracts and the freezing of posts as lesser evils.

# Industry warns on specialization

by Frances Gibb

Too many qualified graduates is one reason of the failure of industry to recruit graduates, Mr Alex Jarratt, chairman of Reed International, told a conference at Hull University this week.

There had been a concentration of too many graduates in subjects not applicable to their subsequent jobs, or whose competence was not more than could be found in school leavers with A levels.

This had damaged the concept of higher education as a way into business in the minds of employers, he said.

Mr Jarratt was addressing 300 representatives of university and polytechnic careers services, the professions, industry and commerce, local government and public bodies at the biennial conference of SCUAS, the Standing Conference of University Appointments Services.

He said the resurgence of interest in industry had important implications for higher education. The first requirement for school leavers was that they possessed the practical tools for living. They needed a better understanding of their environment and a desire to use their aptitudes to contribute to and enjoy it.

It was wrong for pupils to leave school unable to read, write or communicate effectively. That was an obvious bar to obtaining worthwhile employment, and, what was more worrying, meant leavers would be unprepared for participation and involvement in industry.

He urged teachers to acquire industrial experience in their holidays so that they had an idea of what was involved. There was also a need for more adequate careers information.

Graduates had been put off industry for a number of reasons: its lack of status; the lack of a clearly defined career pattern; the risks involved; the working conditions, the size of companies and low pay.

Many of these factors were now changing. But when recruiting from universities and polytechnics, employers should be sure to send young representatives, and to give a clear idea to graduates of what they would be doing.

The Sunday conference marked the end of the SCUAS and the advent of AGCAS, the Association of Graduate Careers Advisory Services. The title was changed because of a feeling among polytechnics and colleges of education, which are also involved, that the former title did not reflect the organization's true membership.

Among topics discussed were: prospects for coloured graduates; the disabled graduate, careers education, helping students at a time of high unemployment; and the employment and training of the older graduate.

A report on the problems of mature students presented to the conference by Mr Terry Smith, of the careers service at Hull University, showed that there are now more than 50,000 full-time students in British universities and polytechnics over 26 years of age.

It calls for employers to drop rigid upper age limits for graduate employment, argues that legislation against discrimination on grounds of age may be necessary and urges the Secretary of State for education to consider appointing a AGCAS representative to the new Advisory Council for Adult and Continuing Education.

Universities and polytechnics are often enthusiastic about the admission of mature students. But the report suggests there is a need for a more effective pre-course advice service for older students. They need to be made aware of the realities of the job market before embarking on courses.

In a general discussion, Mr Bernard Holloway, secretary of the Manchester University careers appointments service, warned that for graduates who did not manage to enter the professions, there would be increasing unemployment.

He was particularly concerned about arts and social science students and women. The university has had to shift from the question "What do I want?" approach to the pragmatic: "What can I get?" approach.

Mr Kenneth Dibdon, director of the careers advisory service at Durham University, was appointed chairman of AGCAS for the two-year succession to Mr R. N. J. Lloyd-Williams, careers adviser at University of Wales, Aberystwyth. Mr Dibdon, of Cambridge University, will remain as secretary.

● Careers advisers have an important role to play in improving young people's image of Industry, Mr Oakes, Minister of State for Education, said last week.

He told the meeting of the SCUAS meeting at Hull that young people already had some very fixed ideas about the wider world when they leave school.

"Teachers and the careers service have an important part to play in improving young people's image of the workings of industry, and in the role in producing wealth for everyone and the career possibilities it offers."

They needed accurate data for this work, he said. It was clearly in the interests of industry to consult with schools and offer help and further education, to ensure they had the facts.

# Whitehall urged not to waste savings from education cuts

by David Walker

The Trades Union Congress this week urged the Government not to waste the resources freed by the run-down in teacher education.

It accepted, without dissent, a motion from the National Association of Teachers in Further and Higher Education warning of the danger of reducing access to higher education for women and girls, rather than the resources released from teacher education are used to the full to secure the provision of further and higher education places, and within this, that the opportunities for women are at least maintained."

Mr Francis Cummyatt, principal of Rolle College, Devon, and president of NATFHE, told delegates meeting in Blackpool that the union affected all those whose children wanted places in higher education and those who cared about the welfare of the young. Support for the motion came from the National Union of Teachers whose spokesman warned of a "deliberate attack on the education service in favour of elitism".

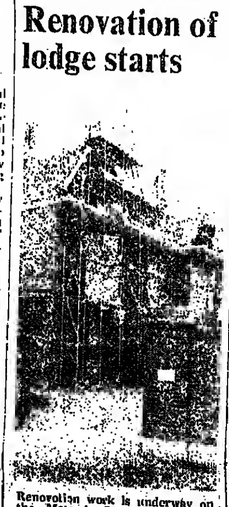
The TUC adopted a series of proposals providing mandatory maintenance awards for young people wishing to stay in full-time education after the age of 16 and a full programme of day-release for those in jobs. However, there was support for the view expressed by the General and Municipal Workers' Union that the key to solving youth unemployment lay in an autumn budget pumping money back into the economy.

The Association of University Teachers, interrupted during discussion of the TUC's annual report to clear up "misconceptions" about the universities. Dr C. F. Wells spoke of the "fiction" of a surplus of student places.

The universities, he said, had been subjected to a series of squeezes during which "stuff had been forced to conform because they were so badly paid. They had been replaced if student numbers did not reach certain minimum levels. Departments had shrunk and it was not accurate to speak of extra places.

During the debate on the Government's policy of cash limits for the public sector, Mr Laurie Sapper, general secretary of the APT, said cash limits inhibited the centre from collective bargaining for unions in education. Such limits were part of a Treasury strategy to impose a secondary incomes policy in the public sector.

# Renovation of lodge starts



Renovation work is underway on the Master's Lodge, St John's College, Cambridge. The century-old lodge's chimneys are decaying and may have to be rebuilt but St John's spokesman said this week that "all possibilities" were being explored.

# Tribunal rules that jobs claim woman may see applications

An industrial tribunal has directed that confidential personal information supplied by farmers who applied for a tutorial post at the Harper Adams Agricultural College, Newport, Salop, must be disclosed to an applicant who failed to get her name short-listed for the job.

She has claimed, at a public hearing in Shrewsbury, that she is better qualified than the man the college subsequently appointed and she has brought a case under the Equal Opportunities Act alleging that her failure was due to sexual discrimination. The college denies the claim.

The complainant is the wife of Professor C. Maxwell of the department of zoology at the University of Adelaide. Her application, made in her maiden name of Miss Constance Margaret Ann Baker—which she uses for professional purposes—was the only one from a woman.

Of the 18 other applications Miss Baker is to be allowed to examine 15, the chairman of the tribunal, Mr Anthony Gordon, ruled. He said the other three were irrelevant. He also ruled that the names and some other identifying information must be blocked out from photocopies of the documents. Salaries and titles of both existing and previous jobs will be revealed, along with bibliographies of published work.

Counsel for the college, Mr Ian Morris, said this procedure entailed a breach of confidence for those who had applied for the job. He said the field of work was narrow and little research would be required to discover identities.

Miss Baker—an agriculturalist and geneticist—conducted her own case. In evidence she said that she had seen the job advertised in The THES on January 28. Although the job description—"head of animal husbandry department"—could be interpreted as an attempt to avoid sex discrimination it could also be held to imply that men were required since few women held those positions.

She said the description of the requirements subsequently supplied by the college were diffuse and included several uses of the word "him" as well as the word "she".

Miss Baker said she made a comparison between the details given in her own application form and that of the successful candidate, whose form were made available to her under equal opportunities legislation. She claimed that her qualifications were at worst similar to his, that her research work was broader and more advanced, that her published work was superior.

She also claimed that the successful applicant's educational experience had been gained in Scotland under a system very different from that operating in England, the United States or Australia.

Miss Baker alleged that on the basis, she had written to a number of candidates who had been on the shortlist. "I should at least have been considered for interview", she told the tribunal.

Asked how she could compare her experience with that of the successful applicant, she said she thought he was a technician.

"He has never risen above that. I am far better academically qualified and I would not say he has failed and I would not say he has predicted much although he has had a chance to do so in seven years lecturing." He had published only popular articles, while she had produced books that were used in teaching.

Miss Baker added: "I have looked after animals for others when they have been away and now do have sheep grazing to keep the grass down." She said she had been "in farming" all her life and that she was an experienced lecturer and could do that job required.

Miss Baker brought a case also concerning the Royal Opportunities Commission, which has supplied with details of job advertisements she thought in infringement of sex equality legislation.

At the hearing was adjourned.

# Management committee convenes to hear 'radical proposals'

The 30-strong committee, under the chairmanship of Mr Oakes, Minister of State for education, inquiring into the management of higher education in the public sector meets next week for one of its most important sessions so far.

It will receive reports from two sub-committees, headed by Mr Philip Rogers, the retired civil servant who is acting as Mr Oakes's deputy, and Mr M. G. Venn, the Honiton councillor who is chairman of the Standing Conference of Regional Advisory Councils for Further Education.

They will offer the committee what one member called "fairly radical recommendations" on: new methods of funding the polytechnics and colleges; dividing institutions on the basis of how much degree level work they do; and the question of local authority control.

Committee members report a "fairly high level of agreement" on such questions as national committees to dispense funds to higher education in place of the local authorities polytechnic committee.

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# NEXT WEEK

Maurice Peston on the New Statesman

The Institute of Linguists

Maurice Cronston on censorship

Talking Newspapers

THE TIMES
Higher Education
SUPPLEMENT
September 23, 1977 No 307 Price 18p

Which tree is Newton's? Dr Richard Keesing knows

# This'll give 'em the pip

by Clive Cookson
science correspondent

The tree that bore the apple whose fall inspired Newton's theory of gravitation lives on in the grounds of his old home in Lincolnshire, Woolsthorpe Manor.

Since the spring, Dr Richard Keesing, a York University physics lecturer, has taken time off from his research to investigate the fate of the legendary tree. After sifting through much documentary evidence, he has concluded, provisionally at least, that the suitably gnarled specimen above is the genuine article.

The original tree blew down in a storm around 1818, Dr Keesing believes. Its trunk was removed and made into a chair by Edmund Turner, whose family bought Woolsthorpe after Newton's death. But the tree rose again from the stump, though it is sadly too old now to bear fruit (which would be large green cookers of the old English variety Flower of Kent).

Dr Keesing doubts the authenticity of a rival tree at Belton Park eight miles away, which is said to have been grafted from the original. Over the past 40 years cuttings from it have been propagated at East Malling Fruit Research Station and at Kew Gardens, and sent round the world as offsprings of the original Newtonian tree. Dr Keesing is pictured, inset, beside one of them.

He does not doubt the original story that a falling apple set Isaac Newton thinking about gravity in 1665.

There is strong evidence that the episode took place at Woolsthorpe and evidence, too, that only one apple tree was growing in the garden then, which leaves no room for confusion.

# More powers for poly governors planned by Oakes

by Judith Judd

Stronger and better defined powers for governing bodies of polytechnics and colleges, especially in staff appointments, have been recommended in an unpublished report by a working group of the Oakes Committee investigating the management of higher education.

The group, which has been looking at management problems at local level under the chairmanship of Cllr M. G. Venn, chairman of the standing conference of regional advisory councils for further education, wants more autonomy for governing bodies because, it says, they are often ground between the local authority and academic board.

They should have, for example, the greatest possible freedom in appointments, purchases and contracts, and local authorities, which at present insist on relatively detailed prescriptions of staff, should be more flexible.

The report sees two problems. First, the need of local authorities to retain some control over these areas for financial reasons, and, second, the difficulties of a system based on a global sum calculated by average unit costs.

However, it expects the problems to be lessened by the far-off prospect of a proposed national body for colleges and polytechnics, which it assumes will be set up.

This body, recommended in another unpublished report, has caused deep discussion in the committee. The local authorities have resisted the plan, which has considerable support in the polytechnics. The Association of Metropolitan Authorities is preparing its own scheme, though the report would not involve the wholesale takeover of colleges implied in some newspaper reports.

In return for greater autonomy the report suggests the colleges should submit an overall financial controls which might well be tougher than the present ones.

Funding between the authority and the institution should be based on a "closed budget" within which the institution must operate.

The suggested national body would analyse supply and demand in the maintained sector, advise the secretary of state on policy, allocate funds for running costs and control capital expenditure. It would also have a role in relation to the direct grant and voluntary colleges and is seen as a way out of some of the difficulties which have beset mergers of voluntary colleges with those controlled by local authorities.

Mr Oakes, minister of state for higher education, said last week that all options were still open to the committee but the proposal must have considerable support to have won the backing of the working party.

The report emphasises that the proposed 24-member body would have important differences from the University Grants Committee. It would have to be more flexible in its approach to control and the financial and administrative participation of the local authorities would be fundamental.

The working party is not proposing a general transfer of institutions from local to national control. However, it believes there could be benefits if, over time, some large complex institutions, including direct grant and voluntary, became more directly the responsibility of the national body. But this should be an evolutionary process and depend on agreement with the local authority.

On the tricky question of how and if institutions should be divided for funding the report want all to be treated equally, however small or great their share of higher education. All should be embraced in the same management system, which should be flexible.

The working party wants the full committee to decide how local authority and national finance might be combined. It suggests it should be done either by the provision of, say 25 per cent of the money by the local authority and the rest from a direct Government grant, or by a combination of individual local authority finance and a modified form of the present pooling system.

# 'Hold up policy studies centre'

Four major independent institutions have jointly asked the Social Science Research Council to reconsider its £5m plans for a new policy research body.

Mr Derek Robinson, chairman of SSRC, this week received a letter signed by the directors and governing councils of the National Institute for Economic and Social Research, the Royal Institute of International Affairs at Chatham House, the Centre for Studies in Social Policy, and Political and Economic Planning.

It urged no further moves at least until the independent bodies had been consulted and the possibilities of a scheme linking them and the SSRC investigated.

During the past month the independent bodies have been provoked into coming together. PEP and the Centre for Studies in Social Policy have plans to cooperate on research and NIESR plans to expand its series of economic conferences to take in the interests of the other bodies. The proposal now being made to the SSRC mentions administrative cooperation and shared libraries.

# Marxist infiltration claims decried

by David Walker

Fears of a witch-hunt against Marxist academics were raised this week in the awake of a report on subversion in University and college social science departments.

A spokesman for the Association of University Teachers criticized the report, The Attack on Higher Education published by the Institute for the Study of Conflict. "Listing people, as the report does, who simply attend meetings is pretty dangerous."

He added that the academic study group which advised the author, Professor Julius Gould of Nottingham University, were an isolated group "with a lee in their bonnet" and no backing among university teachers at large.

The report claims Marxist and radical "penetration" of university departments. Professor Gould describes tactics of intellectual subversion in sociology, literary criticism and social work and criminology. He gives a full list of participants at the recent Communist University of London and identifies academics who belong to far Left political groupings.

Professor Gould says the Marxists "are a network, working together in manage academic appointments.

"They depend for their influence in education upon their skill at exploiting the ambivalence of others—especially of administrators or of colleagues."

[illegible] Marxist page [illegible] tration includes [illegible] and the written statements of individual academics.

Dr Michael Young of the London University Institute of Education, has called the selection of evidence "highly tendentious".

The report includes an appendix on the British Communist Party, listing its various publications and educational activities.

Yesterday a meeting of the executive committee of the Campaign for Academic Freedom and Democracy drew up a rebuttal of allegation that radicals and extremists had established a "bridgehead of illiberalism" within higher education.

Professor John Griffiths of the leading figure in CAFD, said: "This report seems to reflect a revival in the sort of anti-left attack we first saw in the late 1960s and early 1970s. I am a bit surprised the authors should have thought it necessary. The evidence of recent years is surely that the Left has been brought firmly under control."

A colleague in CAFD, Mr Anthony Arblaster of Sheffield University, added that the academic atmosphere was likely to be very unpleasantly coloured by the report. "Professor Gould has unfortunately contributed to the destruction of the atmosphere of tolerance which a [illegible] pluralism needs to flourish."

Earlier in the week, however, the report received a warm commendation from one of the most senior figures in higher education, Lord Robbins of the London School of Economics. The report was "a splendid example of the sort of argument and persuasion" for use in the fight to sustain free inquiry.

Lord Robbins focussed on the intellectual errors of the Marxists. They were guilty of a "preposterous historical relativism" and on "incredible simplification of sociological issues", he said.

The Institute for the Study of Conflict is an independent study with a wide list of publications in the field of international relations. Its director, Mr Brian Crozier, said at a press conference this week that less attention had been paid to the fascist than the Marxist threat to freedom because the former had been less important until recently.

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## The THES

We regret that The Times Higher Education Supplement was not published last week because of industrial difficulties. This week's issue of The THES has also been reduced in size for the same reason. Classified advertising appears in the middle of the paper and starts on page 9. We apologize for the inconvenience caused to our readers and advertisers. We also apologize for the misprints in this week's issue, which are due to continuing problems in the reading room.

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# Pressure put on SSRC to take initiatives

by David Walker

A member of the Social Science Research Council spoke last week of "strong Government pressure" on the SSRC to take initiatives in policy-oriented research. But, he added, the SSRC sometimes rejected Government suggestions.

Professor Jack Wrigley of Reading University, a member of council and chairman of the SSRC's educational research board, as talking to the annual meeting of the British Educational Research Association in Nottingham. He revealed that the SSRC is planning new initiatives on accountability and assessment in education, on the impact of research, on adolescence, and on handicapped children.

He said: "Clearly there is Government pressure on the research councils for them to adopt the initiative mode. But members of the educational research board have been sceptical about taking big initiatives. We have had successes, but initiatives are often difficult to carry through."

The SSRC is organizing a major seminar on the theme of accountability and assessment in Cambridge. Professor Tony Becher, of Sussex, has invited a number of scholars as researchers to discuss what sort of project the SSRC might finance.

Professor Wrigley assured his audience that the report in a recent SSRC *Newsletter* about money for educational research was "unduly gloomy". There were, he said, an increasing number of proposals for research and a decreasing amount of cash, but there was still money available for good work.

Members of the BERA told Professor Wrigley of their concern over some aspects of the SSRC's operations. Did the officials have too much power? How did the SSRC define "centres of excellence" when it distributed money for postgraduate awards?

Professor Wrigley said a centre of excellence was a university course that came at the top of the list by dint of its research effort, the staff available for supervising students, its promise, and its record.

The staff of the SSRC had some influence in choosing referees for research grant applications and in the selection of members of the educational research board. On their behalf Mr Glyn Davies, secretary of the board, told the BERA that his job was to ensure a geographical, institutional and subject spread among academics involved in the SSRC's work.

"Cosmetic Study 1969-73"—one of the artworks currently on show at an exhibition entitled "The Treasures of Whitworth" at the Whitworth Gallery, Manchester University, staged to celebrate the Queen's Silver Jubilee.

# Science will not be a special case

by Clive Cookson
science correspondent

The Government has officially rejected the recommendations of a Commons Select Committee on Science and Technology on engineering and science manpower treatment in higher education.

There will be no extra grants for applied science and engineering students, no earmarking of additional funds for science and engineering by the University Grants Committee, no designation of Special Institutions for Scientific and Technological Education and Research (SISTERS), and no new research minister within the Department of Education and Science.

A White Paper published today by the DES and Department of Industry as a formal reply to last year's Select Committee report on university-industry relations, and two initiatives announced there "will be a much more economical and effective way of attracting more students than the payment of higher maintenance grants to all students following courses in engineering and applied sciences".

These are the decisions to the employers to pay students up to £500 a year without affecting the grants, and the Government's industrial scholarship scheme details of which still have not been announced.

At a press conference on the White Paper last week, Mr Gordon Oakes, Minister of State for higher education, denied that the scholarship scheme was being held up by lack of enthusiasm on the part of British industry. He said about 300 awards, financed jointly by Government and industry, would be made in autumn 1978, and the number would rise in future years.

The White Paper notes that the latest UCCA figures show a trend towards technology and applied science courses, for which there have been 21,750 applications for entry this year—13.9 per cent more than a year ago.

"As a result of these encouraging trends the empty places in science and technology departments which have caused much public comment are disappearing. An increase of annual admissions of about 4,000 over the next two or three years should be sufficient to fill those which remain. The Government believes the main problem for the institutions now is to attract a greater proportion of students of high ability and motivation. There are obviously some signs that they are succeeding in doing so."

The SISTERS concept has already been exhaustively examined and rejected, the report says. The designate institutions as SISTERS would restrict them to training and research in engineering and the applied sciences would have the effect of isolating their activities from other disciplines at a time when the policy in other spheres, for example medical education, teacher training and management studies, is to move in precisely the opposite direction.

"The Government believes that the Committee's aim of strengthening engineering education, with which it is in full sympathy, is much more likely to be achieved in existing multi-faculty institutions".

The appointment of a separate Minister of State for Science and Technology is unnecessary, the Government feels, because the field is already being looked after satisfactorily by the Secretary of State and her junior ministers.

# Call for cut in examining boards

A drastic reduction in the number of A level syllabuses and examination boards is one of the main recommendations of a Commons committee examining the examinations of school leavers.

The education, arts and Home Office sub-committee of the House of Commons Expenditure Committee of the House of Commons Expenditure Committee also calls for the earmarking of specific grants for in-service training for teachers, and for a Bullock-style inquiry into the teaching of mathematics.

On examinations, the committee says: "There seems to be a strong case for fewer examining boards than the present 22, and for these to be regionally based, a system which already appears to work satisfactorily in Wales".

Boards should also strive to ensure that standards be kept as similar as possible between the various boards, subjects, and from one year to the next.

The committee recommends that examining boards should improve communications with parents, employers and people in higher education about the meaning of various grades and the content of syllabuses, especially in the case of Mode 2 and Mode 3 of the CSE.

It also wants a reduction in the number of syllabuses offered in those areas, like mathematics, where there has been proliferation.

Universities and polytechnics are asked to give priority to identifying mathematical skills which appear to be a basic necessity for someone starting a degree in mathematics, engineering, or the physical sciences.

The committee's report records the complaints of many in higher education about the need for remedial work with first-year students.

It was told of the need to distinguish between students who had an inadequate grasp of basic mathematics and those who had competently mastered a syllabus which was very different from that being done in the first year of university work. The committee concludes: "Serious erosion of first-year time occurs . . . and the standard of written and oral competence and study skills is sometimes not sufficient to sustain degree level work.

"Unless attention is given to these vital areas the very existence of a three-year degree course, already shorter and more intensive than in many countries, may be under threat."

The National Union of Students has welcomed the report and expressed a hope that "the streamlining of the examination system would bring an end to the baleful influence of the universities over the school curriculum."

# ICED study

We have been asked to point out that the unpublished study *Purposes, Policies and Prospects* by Professors Tony Becher and Maurice Kogan and Mr Ian Embling for the International Council for Educational Development, New York, reported in *The Times* on September 5, was a first draft only. Some of the passages quoted in our report and the leader which accompanied it may not appear in the final version.


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# Don's diary

## Tuesday

The Pugwash conferences on science and world affairs are due to celebrate their twentieth anniversary this year. Following the issuing of the Russell-Einstein manifesto alerting the world and scientists in particular to the threat of nuclear war, 22 people met at the village of Pugwash, Nova Scotia, in July 1957.

Today about 240 individuals, expert in a wide range of natural and social sciences, are converging on Munich as the guests of their colleagues in the Federal Republic of Germany. This is actually the 25th conference and as one of a sequence of larger quinquennial meetings will consider the policy and programme of the movements over the next five years.

Participants from the British Group of whom there are 20 in all, including the International president, Professor Dorothy Hodgkin OM and the former secretary general, Professor Joseph Rotblat, have somehow to get away from Heathrow airport in the face of the confusion created by the air traffic control assistants.

The promise made by the check-in girl in London that "my colleagues in Stuttgart will look after you in any case" is well borne out. On arrival we are whisked by car to the Hotel Bayerischer Hof where the conference is to take place and most of us will stay.

Almost immediately, however, there is a mild undercurrent of criticism primarily from those who would be the first to complain if the reverse were true. There is, they claim, with some reliability something incongruous if not improper in meeting to discuss the world's major ills, especially poverty and starvation, in luxurious surroundings: this is a perennial debate which was highlighted when we met in India.

The elegant Taj Coromandel Hotel in Madras did contrast directly with the conditions of the people in that city, but what else could the conference organizers do there in the circumstances with their foreign visitors?

Typically, perhaps only the British at the last quinquennial conference in Oxford have been able to solve the problem of combining the prerogations with the physically rigorous by housing some of their guests in the older undergraduate rooms at Christ Church.

Ritual objections largely over, we settle at an informal reception to renewing old friendships and making for sub-diplomatic discussions.

## Wednesday

The conference begins at 09.30 hours with a piano recital by Hepzibah Menuhin, who with her husband, Richard Hauser, attends most of the conference. The official opening follows with a speech by Hans Matthöfer, the federal Minister for Research and Technology, deputizing for the Chancellor, Helmut Schmidt who is unfortunately unable to come.

I do not think I have ever heard a speech so well judged for the occasion: "Scientists", said the Minister, "must, whether they like or not, cross their own borders and deal with the political and economic mechanisms and institutions on which depend the extent to which the theoretical knowledge accumulated is utilized and practised".

He is under no illusions about the difficulties and appeals to scientists to understand social processes generally and especially the social realities internal to developing countries. Peace is not a simple or a single concept: should it be defined as the absence of the use of force or the absence of social injustice?

In the afternoon the working groups begin: I am co-convener with a Swiss with whom I am already on friendly terms and a Swedish expert on chemical warfare who will arrive later from a UN disarmament committee in Geneva. This reminds us of the character of Pugwash as a forum for sub-diplomatic discussions.

Vassily Soludovnikov, now Soviet ambassador to Zambia, has also been to Pugwash on at least three occasions. Henry Kissinger was a regular attender in the 1960s. The working group on "Arms Control and Disarmament in the Non-Nuclear Realm" this time includes a Soviet historian of Britain, a retired German general who now directs a peace research institute, physicists, lawyers, political scientists, sociologists and doctors and welcomes an observer from the Stockholm International Peace Research Institute (SIPRI).

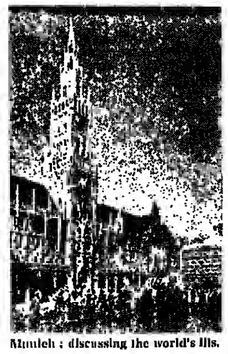
We debate the agenda outlined for us by the Pugwash Council and decide to use as a working paper, which I have drafted, as a basis for considering new or unremunerated ideas which might help make more productive the special session on disarmament of the UN general assembly scheduled for next May.

In the evening we are entertained by the Prime Minister of Bavaria at the Residenz.

## Thursday

Seven hours of detailed discussions in the group, of which I chair, has not during a joint session on the neutron bomb. This new weapon in the nuclear spectrum is regarded with particular abhorrence by some on humanitarian grounds. We try to get behind the emotional reaction to another nasty device and are warned by some of our colleagues against exaggerating its special genetic effects.

We come to the conclusion that it is particularly objectionable because it emphasizes what several participants describe as "war-fighting capacity" rather than deterrence or the preservation of peace. It clearly endangers progress towards a comprehensive test ban treaty, which recently seemed rosy, would increase pressures for



Mitnich: discussing the world's ills.

nuclear proliferation and lowers the threshold for the use of a nuclear weapon.

## Friday

In the morning we endeavour to bring the working group to some conclusions which can be reported. This proves easier than seemed likely to begin with because a pattern of argument has been firmly established—arms control measures have a limited usefulness and can even be counterproductive, it is time to take a fresh look at the possibility of substantial force and armament reductions, including unilateral initiatives.

The incentive to finish discussion and a first draft of the report in time for lunch is the promise of an enjoyable excursion to the largest lake in Bavaria, Chiemsee. A short coach ride mostly on the Munich-Salzburg autobahn provides an opportunity to consider the taxonomy of conference excursions.

Time also for the informal debates which we always hope further international appreciation. I could not help being struck by the rational appreciation, especially by younger German academics, of the current problems of Britain. Was this, I thought, simply the politeness of hosts to a guest?

Then I discovered quite incidentally the weight which may of them attach to Rolf Dahrendorf's symptheic model of a British people beginning, perhaps successfully, to tackle economic and social ills which threaten to debilitate society, and could eventually engulf some of them. This kind of link between two leadership elites suddenly assumed a new importance.

## Saturday

Debate on the working group's draft reported produced a thing but improvement. This year to an even greater extent than of the last two or three conferences the old sterile East-West argument seems to have paled to insignificance. The Vienna force reduction talks may effectively be deadlocked, but at least, it is argued, they have served a purpose of mutual education in the strength and nature of each other's fears.

In the afternoon I present the group report to the plenary session. Comments focus on the strength or weakness of one statement about the neutron bomb, which we have included because of its implication for disarmament generally. Our comments on the problems of the conversion of industry from military to civil purposes, informed by a proknowledge of a forthcoming United Nations report on the economic and social consequences of the arms race, go largely unremarked at this stage.

This confirms the view held by many regular participants at Pugwash conferences that, with rare exceptions, it is not the report but the discussions which preceded it that matter. We shall, however, take up and include in the report a suggestion that all governments should set up study groups on disarmament to prepare for the special session of the United Nations general assembly.

This evening the Max-Planck-Gesellschaft entertains, as before dinner. During it, Mrs Cyrus Eaton who, with her husband, hosted the original Pugwash meeting in 1957 speaks and plays a tape of Bertrand Russell which unfortunately is largely unintelligible.

## Sunday

We are now in the thrall of plenary sessions mainly about the future; but first we hear the remainder of the reports. It now appears that reports of South Africa's nuclear capability have caused a change of heart in one respect. Previously in spite of suggestions for encouraging economic and other pressures on South Africa, all contacts with that country by Pugwash have been resisted. Now, ironically, the possibility of a nuclear explosion, officially denied, seems to be leading towards a meeting between Pugwash scientists and their opposite numbers in South Africa. One or two of us with knowledge of the politics of Southern Africa may be asked to help.

This issue, and the reported licence by a West German firm to develop small rockets in Zaire, serve to highlight the crucial link between disarmament and development which is the core of the Pugwash movement's own internal controversy.

Tonight we had a public presentation by seven speakers on "Scientists and Problems of Peace". Lord Noel-Baker with his own passionate brand of oratory and unique interpretation of the history of disarmament negotiations stole the show, but not before we had had time to appreciate Carl-Friedrich von Weizsäcker's sober assessment of the chances of avoiding nuclear war, and a brief but refreshing contribution from Angel Dolovski, president of the Bulgarian Academy of Sciences.

## Monday

The conference closes at midday. I depart in a mood of relative optimism, not because I have just been elected one of the two British representatives on the Pugwash council, but because, though exhausted by its intensity, I have enjoyed this conference as much as any and feel that some of the more rigid barriers to international understanding are beginning to yield.

**William Gutteridge**

*The author is professor of complementary studies at Aston University.*

# Crystal ball gazing and after

Bryan Davies

Adapting Aneurin Bevan's well known aphorism "why gaze into the crystal ball when one can listen to the TUC in conference" brings the confident prediction that the key issue of 1978 will be the pay claim. Education unions may not mobilize the industrial clout of the larger and more strategically significant forces present elsewhere in the economy but the next academic year promises some fairly sharp debates.

The Association of University Teachers considers itself to have been as unfortunate a victim of the axe land and already the first rumblings on the campus threaten to emanate this year from staff not students. Before the battle lines are drawn on this conflict, however, it is to be hoped that a full stock will be taken of the major issues to this past year.

There can be little doubt that, as far as education ministers are concerned, their most controversial action in further and higher education was the raising of student fees. The bitter harvest of this decision is, of course, only now being gathered in as students enrol for the coming term.

Needless to say the absence of any clear direction from the Department of Education and Science ensures that the educational world responds to the pressures of the new constraints in a piecemeal and unpredictable fashion.

Universities undoubtedly will succeed best in protecting students midway through their course by the use of extra government support for hardship funds and their greater ability to juggle their own resources. Polytechnics will be at the mercy of their respective education authorities, many of whom in the past year having displayed limited sympathy for the problems consequent upon fee rises.

Even more vulnerable is the further education sector where the claims of overseas students are in even starker competition with home students at the local college.

Yet the chaos and disruption over fees, reflecting in some cases a major injustice to students entering the later stages of their courses, represents only one facet of the increasing difficulties confronting overseas students in this country.

Indeed, so the United Kingdom Council for Overseas Student Affairs has recently pointed out, the only policies which have emerged from Whitehall in recent years have been ones of increased restriction and control, leading to a marked deterioration in the climate for overseas students.

In areas where government has sought to be constructive along lines which have won widespread support there exists doubt on the effectiveness of government strategy. The praiseworthy attempts of the Overseas Development Ministry to give substance to their declared aims of directing more aid to the poorest in the Third World appear to make only limited impact in the field of education.

Despite the fact that historically a major element of United Kingdom support to the Third World, especially Commonwealth countries, takes the form of access to our educational facilities, the ODM's capacity for establishing their priorities appears severely limited.

It can and does of course exercise discrimination on the students and courses it intends to support. Nevertheless, since the emergence of the new aid priorities, there has been little drive from the ODM to establish a fresh evaluation of the appropriateness of many courses on offer in further and higher education. Moreover its own limited resources for educational support threaten to be swamped by the fees increase.

The government justification for the decision has, of course, been expressed almost solely in terms of public expenditure constraints. It is not my purpose in this article to consider the validity of that general argument. It should, however, be a matter of gravest concern to Labour ministers that they have been trapped by the intensity of the crisis into short run and ill-considered expedients.

There ought to be greater appreciation of the fact that the crisis reveals the necessity for a more coherent policy for the future. The only concession made thus far is a hint of withdrawal from the expressed intention to increase fees further next year.

To their great credit, several of the pressure groups in the field of overseas student welfare are responding in a much more constructive fashion. As reported in *The THES* several weeks ago, the UKOSA and the Council for Education in the Commonwealth are developing a proposal for a Commission for Overseas Students.

They contend, with great justification in my view, that government policy is in its present straits not chiefly through resource constraints but through the absence of any institutional machinery to develop a longer term policy on overseas students.

Their argument is that government has given a firm indication that it is breaking with the *laissez faire* policies of the past—at least in respect of overall numbers of students—but has not the will or capacity to develop a coherent strategy for the future. Thus a commission should be established with representation for all the major interests concerned with the education of overseas students to provide a basis for future policy.

The concept is, of course, by no means a novel one. The House of Commons Select Committee on Expenditure examining policy formulation in the DES last year recommended a standing commission to consider long-terms educational issues. Whilst other more minor recommendations of the committee were accepted by the government with commendable promptness, the concept of the commission was rejected in fairly forthright terms.

And such a commission been created, however, the issue of overseas students could now be under consideration by a body committed to evolving a long term policy. Perhaps the select committee was being excessively optimistic in linking such a radical solution to educational policy formulation.

The UKOSA proposals embrace the same concept but in a restricted area of policy. The commission could hope to develop an overall strategy in a field where several government departments have fingers in the pie.

In addition to proposals on the number of places which British education should offer to students from overseas, an attempt could be made at deciding on the most equitable distribution of places between the different sectors of further and higher education.

The educational world could respond more positively to priorities identified by ODM and a more extensive public debate could develop on the nature of Third World needs in educational terms. The difficult issues of Home Office requirements on immigration control could be tackled in such a way as to minimize irksome restrictions on students.

It is clear that at present no such institutional machinery exists nor is there an adequate forum for public debate on these issues. Few of us needed the deliberations of the Government's "think tank"—although its trenchant criticism of present arrangements for educational support cannot be lightly dismissed—to recognize the urgent necessity for a more coherent policy on overseas students.

No double ministers and even more their Whitehall mandarins will deny the usefulness of such a body. They will argue that it will become merely a pressure group. Moreover, they will contend that the existing machinery is perfectly adequate.

To that proposition many of us after the experience of 1977 may be tempted to answer so *momentum requiris, circumspice*.

David Walker examines a Royal Commission findings on women's magazines

# Beyond skin cream and escapism to significance

Professor Oliver McGregor of Bedford College, London, the chairman of the Royal Commission on the Press has set sociologists to work analysing the papers and magazines we read.

Last week the latest commission review appeared. It is a description of women's magazines by Dr Cynthia White of the City of London Polytechnic and is the first time a Royal Commission has singled out the women's press as a separate category.

Women's magazines may be, as Dr White's survey of their content shows, still bound up with homes and families, but note has to be taken of their growing social significance. The fact that the Royal Commission has bothered with them "represents something of an accolade for those who produce them".

Dr White, author of *Women's Magazines 1963-1968: A Sociological Study*, went on secondment from her position as head of the sociology unit at the polytechnic while working for the commission. She interviewed the major magazine publishing corporation—but most of her time was spent reading *Mother, Mirabelle, Women's Own, Petticoat, She* and *Cosmopolitan*.

There is always a danger when sociologists confront ephemeral aspects of life that they become at worst prissy and at best pompous. Dr White resists the temptation during most of her study but succumbs when looking at the youthful end of the magazine market.

She says: "The magazines rather represent a counter-influence to society by reinforcing teenage fantasies and squandering teenage enthusiasm and imagination on unworthy objects, when they might be reflecting the rich opportunities open to them through learning, social services and many other routes."

For the most part, though, Dr White is neutral. Indeed her report betrays no little regard for women's magazine editors sandwiched as they are between avaricious commercial management and fickle readers.

In the late 1960s and early 1970s there was a rash of new titles and diversification in the content of the magazines. Recently, says Dr White, as innovative magazines such as Nova have folded, there has been a reversion to the world view which most magazines had in the 1960s, concentrating on home and family.

As Dr White says: "The conclusion cannot be avoided that, although there is now more scope for progressive writing in the women's press, its largest sub-group is still composed of women whose first priority is the Family, who do not actively seek wider social participation, and who are less interested in discussing the foremost social issues of our time in their magazines than they are in poring over the legion examples of common emotional problems which abound in intimate personal relationships."

Unlike some of her Marxist colleagues, Dr White does not see a conspiracy of capitalist publishers foisting agony columns upon a duped public. Some of the most interesting sections of her report, in fact, concern publishers' new attitudes in recent years.

She says the "lowest-common denominator" approach to women's publishing has been undermined. The mass market has been steadily crumbling in recent years under the pressure of social and economic changes.

"Accordingly, the women's magazines have been at pains to develop separate and distinct 'pictures of the world' which they hope will find acceptance amongst like-minded people. Their editorial concepts match the attitude groups thought to exist within the female population and run the whole gamut from the 'traditional domestic' to the 'progressive-involved'.

"Thus Woman's Weekly's readership no longer represents the 'mass market' in women's journalism, but a massive sub-group within it, alongside which other sub-groups of varying size and characteristics are now ranged."

Few weeklies are "progressive". D. C. Thomson of Dundee still successfully produces journals of an exceptional fiction. There is not much heaving and panting explicitness to be found in People's Friend, Red Letter or Secrets.

Dr White records a substantial increase in the demand for women's fiction in the 1970s. Not only have several new titles been launched but fiction has held its place in the general magazines.

Fashion papers have had a more chequered history. Typical was the decision in 1971 of the National Magazine Company to amalgamate Queen and Harper's Bazaar. Part of the problem is the growing diversity of "fashion" itself, the concept of Vogue and the tyranny of the contourers mean little to most readers.

Dr White is critical of magazines aimed at younger women and girls, referring to restricted range of content and superficiality. There are few searching features and not much well-written English, she says.

"The advertisements in Jackie, Mirabelle and Fab 208 show where the real interest lies. The kids who read them will wangle money out of dad, or spend a whole first pay packet in any hour—so it is cleansing lotion, spot cleansers, hair preparations, and any number of products designed to cope with that (shh) awful monthly problem. The advertising trades on pubescent insecurity—like the articles."

Dr White speculates about the influence of the size of the publishing organization. D. C. Thomson gets good marks because as a small, family firm there is easy access to top management.

She quotes an IPC employee to the effect that the accountants are getting more and more powerful, the creators less so. At IPC the market researchers are powerful. The advertisers of beauty products, clothes and baby products are influential in all the magazines.

Nonetheless Dr White concludes her study with a fair degree of respect for the journalists and their ability to resist undue commercial pressures. It remains true women's magazines, most of which are produced by IPC, do provide an "irreplaceable and vital service of social welfare service."

"Not only do they enhance the personal well-being of millions of individuals, but also they make a significant contribution to maintaining standards of family care, not least in the area of nutrition and health. For a few pence, women find a variety of situations and with widely divergent needs can all find upon expert help of a kind, and in a manner, provided nowhere else. Equally they can find amusement, diversion and escape."

The inclusion of women's magazines in the work of the Royal Commissions is seen by Dr White as a feather in the editors' caps. And the magazines have *become more* socially important, as society—or rather the sociologists as society's proxy—has to monitor their performance.

Sue Reid reports on a National Union of Student's paper on teacher supply

# New look at strategies to alleviate teacher unemployment

The National Union of Students has released a new strategy paper which attempts to assess the educational argument for an expansion in teacher supply and examines the Government's plans to alleviate the growing threat of massive teacher unemployment.

The document, released to coincide with the union's teacher education conference in Edinburgh, suggests that Britain's students should launch a political campaign aimed at raising the demand for full teacher employment in the context of school and post-16 education needs.

It claims: "The ability of student unions to become directly involved with community interests in defining educational needs will have a major impact on the effectiveness of our strategy for increasing teacher supply."

"Time and again in recent years the Department of Education and Science has sought to justify their policies in terms of the Government's central political commitment to public expenditure cutbacks and over the next year the impact of the cuts will become more severe as the Government seeks to implement cuts totalling £1,034m throughout the social services."

The NUS goes on to warn that "32 per cent of these cuts are due to a fall in education spending. Therefore, the strategy of halting and reversing these cuts in the different sectors of education must be seen as part of a broader attempt to reverse all cuts in social services spending."

Recalling the history of the growth in teacher unemployment, the document says that 1975 was the year when this problem became a public issue. That year, it claims, 3,000 newly qualified teachers were unable to find teaching jobs and a similar number of centrants, predominantly married women returners, also failed to gain posts.

"It was not until the summer of 1976 that the rising level of teacher unemployment received major public attention. That year, 5,000 centrants and 14,000 newly qualified teachers were unable to find teaching posts."

The strategy document adds: "This year we estimate that a further 5,000 teachers will be seeking to return to the profession and of the 36,500 newly qualified teachers at least 15,000 will not secure employment but would have done so in the conditions prevailing in 1973-74."

After the 1976 predictions of rising unemployment among teachers a significant number had diverted to alternative forms of training and employment. Therefore it could not be assumed that all the qualifying teachers had been seeking teaching posts. But the employment prospects of teachers were now significantly worse as a result of falling rolls, the maintenance of pupil-teacher ratios and a dropping wastage from the profession.

Department of Employment figures in August showed that 8,000 teachers, including further and higher education lecturers, were unemployed in June. But the NUS maintains that these figures do not represent the total picture because they exclude qualified teachers in temporary non-teaching work from which they might still plan to return to teaching.

The union points out: "At Bristol, Shirley Williams announced a four-pronged attack on teacher unemployment. This is quite remarkable because the first 'prong' is noteworthy devastating for educational advance and the second will only have a marginal impact in the short term because of the local education authorities' inability or unwillingness to fund it."

Mrs Williams called for a reduction in teacher supply, an expansion of in-service and induction courses, the introduction of early early retirement incentives for teachers over 50 and the retraining of unemployed teachers for shortage subjects.

"The retraining plan involved the payment of special grants to 1,200 married graduates and others suitably qualified to train or retrain as teachers of maths, physical sciences or technology. However, so far the special tax free maintenance allowance of £45 per week plus generous dependents allowances, has only succeeded in attracting 200 applicants," the NUS alleges.

The DES, it claims, intends to make fundamental changes in both the "level" and the "pattern" of teacher training. By the early 1980s the reorganized system would provide for 30,000 students on three and four year courses and slightly upwards of 6,000 on one year postgraduate certificate of education programmes. This was expected to produce an annual output of between 14,000 and 15,000, of whom 8,000 would have followed the non-graduate entry route and 6,000 the post graduate, a ratio of 8:6 compared with one of 23:9 in 1972.

"There will be a marked shift of emphasis away from concurrent training to consecutive training. By the 1980 about 7,000 of the 8,000 teachers qualifying from three and four-year courses each year will have been trained in polytechnics or the institutes of higher education.

Three-year courses in these colleges will comprise two years of academic study followed by the one year of professional training for the BEd degree and the DES estimate that 40 per cent of these students will stay on for a fourth year to attain a BEd honours", the document says.

This meant that of the 14,000 entrants to teachers there would be approximately, 10,200 with one year of professional training, 2,800 with two years, and only 1,000 trained concurrently for three or four years.

The debate about teacher supply should now be extended to take into account the total needs of compulsory and post-school education, maintains the union. Some activity should centre around the need to integrate provision of education and counselling for 16 to 19-year-olds, the extension of adult education into areas of curriculum development and the growth of in-service training in all sectors of education.

"It is deplorable that the DES still ignores the long standing demand of the National Association of Teachers in Further and Higher Education members for some compulsory element of induction training. In-service training for lecturers is now an essential prerequisite to further education achieving the responsiveness and creativity that essential if the changing educational needs of the 16 to 19-year-olds are to be met."

The document, prepared by Mr Peter Ashby, the NUS deputy president, concludes: "We must attempt to chosen the relationship between those qualified and those qualified. In particular student unions must encourage active association membership of the National Union of Teachers by all trained teachers and must encourage those intending to join further education to build links with the NATFHE."

# Academic valves undermined by Marxist offensive

A new study by Professor Julius Gould, professor of sociology at Nottingham University, claims that the basic values upon which the pluralist society of the United Kingdom rests are under steady and increasing attack from political extremists.

He says: "First, it is important to show how *wrong* the radicals are in what they *says*. Second, it is *important* to understand what they *do*—how, quite undemocratically, they deploy their small numbers so as to secure the maximum leverage."

Professor Gould alleges that "selected university departments have fallen squarely into radical or Marxist hands" and the extremists "rely, like any other network, upon mutual support in the making of appointments." And he says that those who direct institutions in which liberal groups have secured a bridgehead must take some of the blame. "Had they been more aware of their responsibilities, they would have invoked normal criteria of excellence and diversity so as to secure a balance."

Though an appendix contains samples of university examination papers and booklists with apparent Marxist biases, Professor Gould's *report* contains little detailed *evidence about* Marxist activities. The bulk of it is an academic critique of Marxist approaches.

The radical establishment, Professor Gould argues, seeks to impose a form of unilateral cultural disarmament on its opponents. "This is part of a well-known international tactic—the 'long march through the institutions' aided, wherever possible, by the timidity of moderates prepared in practise such disarmament and by the dilemma involved in dialogue with the circles, practitioners of the 'long march'." A flow of books and literature designed to undermine the values, ideas and beliefs of the established order has cascaded" from the presses in recent years. Reputable publishers such Penguin and Macmillan, as well as fringe houses on the Left, have been prominent in publishing such material.

Professor Gould concedes that there is a respectable Marxist tradition within the scholarly community and names Christopher Hill, Master of Balliol College, Oxford, and Americans Eugene D. Genovese and Barrington Moore, Jr, as examples. But the approach he is concerned with is of a different pronounce.

"It is diffused among teachers and students within the establishments, vastly expanded in recent years, of higher education; and it penetrates as it intended to do—social fabric. Its exponents take full advantage of other intellectual fashions which undermine the possibility and desirability of objective knowledge—fashions which have a non-Marxist origin and flavour. But they do so, at varying levels of fairness and subtlety, in the service of cultural and political ends which are Marxist and which, to put it mildly, are 'taken for granted'. Here we find a quite different mode of thought and teaching. We encounter a more dogmatic attitude to knowledge drawn from the acceptance of certain a priori assumptions associated with a Marxist world-view. We encounter a clear commitment to the use of education for politicizing activities—activities directed at producing irreversible changes in the social order. We find a confident, aggressive intolerant style of writing and teaching—a style which narrows, where it seems tactically prudent, from certain procedures of scholarly work, but which also stresses the infinity of 'bourgeois' modes of thought or indicates that there is no world of facts independent of context or of theories which purport to give meaning to those facts."

Professor Gould describes various intellectual tactics that are employed to advance the radical position. These include:—

● The tactic of generalization—"positive version".

This tactic "begins with a valid insight or partial truth, such as is found in the writings of liberals and conservatives, then puts it into a sorting, which results in a false statement". For example, in the study and treatment of mental illness, Marxists have generalized the growing insights into the social causes of mental illness so that it is implied that the whole structure of a capitalist society is rotten and perverse and liable to send society body mad. Thus, working class people are the largest single group committed to mental hospitals, therefore mental hospitals are class-based institutions. And, to quote one Marxist writer, "mental illness is simply a product of bourgeois propaganda".

● The tactic of generalization—"negative version".

This tactic "picks on some—possibly valid—criticism of one particular proposition and then alleges that the same criticism applies to the entire position of the adversary".

● The all-or-none tactic.

This tactic involves cutting out the middle ground "and imposing a premature and unnecessary choice between alternatives". Thus, the recognition that there are real problems of value bias in the social sciences becomes a claim that attempts to achieve a value free approach are hopeless and that single-minded ideology is the only answer.

● The tactic of pre-empting.

This involves creating framework for discussion "in which Marxist assumptions, being introduced at the outset, most inevitably predominate and underpin the ensuing analysis". For example, a study may be defined as "a critique of capitalism". Explanations in terms of "class conflict", "false consciousness" "imperialism", and so on then become logical and plausible.

● The tactic which ignores the total nature of man and the context of human life.

This involves the unquestioned assumption that the only valid explanations of human behaviour are social explanations. Genetic, biochemical or other physiological explanations of human behaviour are dismissed, frequently in emotive or derogatory terms, without an adequate critical analysis.

● The tactic of the non-use or comparative analysis.

"The overriding aim of this tactic", Professor Gould writes, "is to establish the impression that all the problems of 'Western' societies (and, on a different level, those of many 'Third World' countries) are attributable to the characteristics of capitalism and its associated social and political institution, such as liberal democracy. The implication is that the destruction of capitalism and its replacement by Marxist forms of socialism will result in the alleviation and eventual abolition of all social and personal problems."

It may be claimed, for example, that suicide, drug addiction, alcoholism, crime and mental illness are all attributable to capitalism, but there is no attempt to establish whether such phenomena are more, less or equally frequent in non-capitalist societies. Or it is alleged, again without adequate assessment, that all existing societies are merely variants of capitalism.

"The fundamental sociological and political questions—relating to comparative analysis of parallel social phenomena in different socio-political contexts—are left unmasked: consequently, students may be lulled into simplistic acceptance of the interpretation that the destruction of capitalism and associated institutions of liberal democracy will, per se, resolve the problems and inequities so carefully portrayed."

● The tactic of the double standard.

This tactic involves dismissing all other intellectual positions because they are determined by social and historical influences. Only Marxism somehow transcends this determinism and achieves truth.

● The tactic of confusion and mystification.

"There appears to be a deliberate adoption of tactics of mystification and confusion. They may take the form of writing in a style so opaque, so jargon-laden and verbose, that the reader finds it difficult to apply his critical faculties; any attempt to do so tends to promote bewilderment. Consequently, it is easier to adopt a policy of 'just' reading the words and imbibing it uncritically. In this way, the totality of the work may be digested, and any inconsistencies or other forms of intellectual shoddiness may pass unheeded."

Professor Gould gives examples of the influences of Marxist approaches in several subject areas and quotes from such magazines as Radical Philosophy and Further Left. But Marxist influences, he says, have probably been most extensive in social work and teacher education. In both these areas, extremist ideas have been "pressed into practical service". Professor Gould states: "There has been an explicit drive to mould the education of social work students, to influence their political beliefs and associated attitudes to social work practice, before they enter the field."

He accuses radicals of casting in on confusion about the future of British society and imposing the idea of values that should be fostered by education. "They claim that, for example, 'traditional values' (including a decent respect for legitimate authority) are not shared by workingclass children; that to teach the English classics (such as Shakespeare) to such children is irrelevent to their needs; that the "competitive ethic" should be replaced by a 'cooperative ethic' more appropriate to the outlook of such children; that to work in industry is service to capitalism; that teachers who adhere to 'competitive' values must mend their ways or be replaced by those whose ways are 'superior'."

These intellectual influences, argues Professor Gould, "are of greater and more continuing importance than the violent and often brutal excitements which many universities encountered in the late 1960s". The radical minorities have been "adept at building up, using and diverting for their own ends, a variety of front organizations".

Professor Gould names the British Society for Social Responsibility in Science and the Council for Academic Freedom and Democracy as examples. He goes on: "The tendency for radicals to invent or infiltrate pressure groups and distort this year's (or next year's) 'good cause' is a well established one. It is only remarkable that each successive essay in distortion, or in the service of a 'popular front' finds a new supply of gullible customers—and can rely upon a fund of goodwill from those who stand, and smile, at the periphery."

The report by Professor Gould is the outcome of deliberations by a study group which met from November 1975 until earlier this year. Regular members of the group, which discussed "the penetration of extremist minorities and ideas in education and its effect on the liberal values of a pluralist society" were:

Mrs Caroline Cox, Chelsea College, London University.

Professor Antony Flew, department of philosophy, Reading University.

Professor David Martin, department of sociology, the London School of Economics and Political Science.

Kenneth R. Minogue, department of Government, LSE.

Professor Edward Shils, Fellow of Peterhouse, Cambridge and professor of sociology, Chicago University.

Dr K. W. Watkins, department of political theory, Sheffield University.

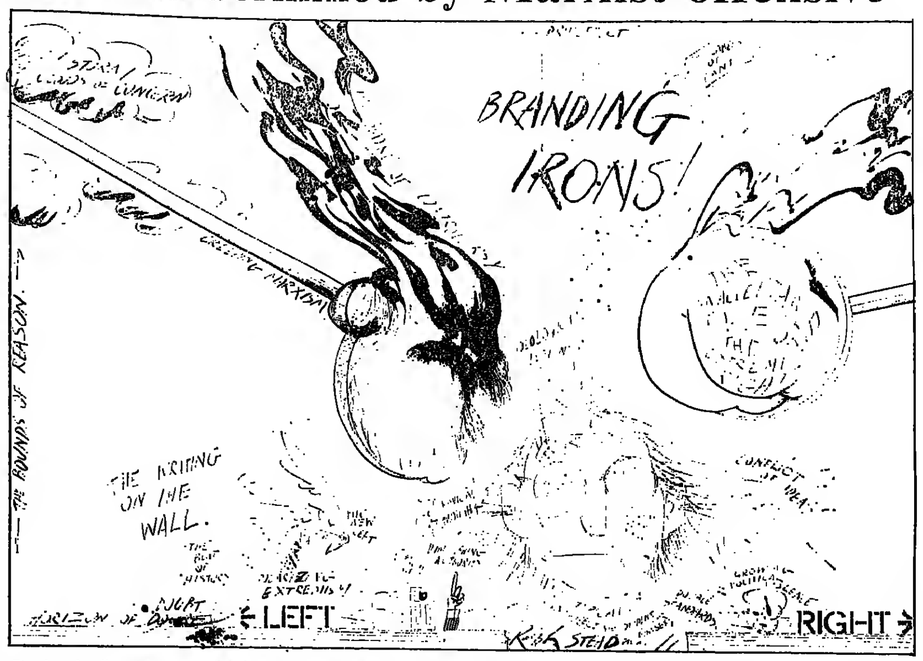
Brian Crozier, Director, Institute for the Study of Conflict.

Iain Hamilton, Director of Studies, ISC, at the time the group met.

Michael Goodwin, administrative director, ISC.

Also consulted were Professor the Lord Valsey, of Brunel University; Dr Rhodes Boyson, a Conservative spokesman on education and Dr Stephen Haseler, of the City of London Polytechnic.

*The Attack on Higher Education*, by Julius Gould. Report of a study group of the Institute for the Study of Conflict. (ISC, 12/12a, Golden Square, London W1R 3AF, £5.)




Steadman's all purpose rent-a-label cartoon penetration exercise.

*In his presidential address to the British Association, published in full THES (September 2), Professor Sir Andrew Huxley criticized those who bring politics into science. In reply, Robert Young argues that scientific facts can never be separated from political values*

# Can we really distinguish fact from value in science?

Professor Andrew Huxley's presidential address to the British Association (THES, September 2, 1977) has raised—both in what it says and what it leaves out—a number of fundamental issues about science in modern society. It must not be allowed to go unanswered, not least because neither his current nor his historical examples give an adequate representation of how science and society are related.

It is ironic, given Professor Huxley's argument, that his evidence only makes sense in the light of the political assumptions implicit in his address. He is rehearsing a familiar position, one which has been repeated both by Galileo, Hume, Mill, Popper and by the defenders of the existing arrangements against the Rothschild Green Paper "customer-contract" proposals: the independence of science.

He reviews the issue in various guises, but the central distinction between fact and value underlies them all.

A central premise of radical critiques of the bourgeois social order and its science (east and west) is that the fact-value distinction—and correlate distinctions, such as that between science and society—makes one particular set of values seem natural and inevitable by drawing the line where it does, and failing to see the issues in terms of mutual interpenetration and levels.

## *Positivist outlook*

The distinction diverts our gaze from considering the ways in which modern science expresses and serves a particular world-view and its social order; for this issue never gets on to the agenda. It is of the essence of positivism—the separation of events into facts on the one hand, and their contexts and evaluative relations on the other—that such questions cannot be coherently formulated within scientific discourse.

The complacency of Professor Huxley's address is dismaying. Its tone is patronizing, and its representation of serious and fundamental problems about science is a caricature. Having read most of the great Victorian presidential addresses to the British Association, it makes me very sad that the issues affecting the role of science in advanced societies can be represented in such a narrow one (in my view) ill-informed way before the very forum which exists for the purpose of informing the general public and stimulating responsible debate.

Professor Huxley's representation of the critics' views invites the tolerant smile one gives the misguided. Science is indiscriminately being made a "scapegoat" by people who think it is positively wicked to look into anything that might disagree with their social and political preconceptions or defame their "wishful thinking".

Is *that* all that is behind protests over carcinogens, mutagenesis, teratogenesis (such as Thalidomide), fast breeder reactors, genetic engineering, XYY chromosome screening, safe and reversible contraception, free abortion on demand, Hixborough, Seveso, agribusiness, the green revolution, drug research and marketing, various forms of biological fatalism (such as sociobiology and IQ), as well as the critique of the power and career structures in science, technology and medicine?

And presumably, if it is argued that these concern the uses rather than the content of science, we have also disposed of critiques of the role of (and deference to) science and technology, and of scientific and technological rationality in the degradation of the labour process, and in various forms of scientific management and management sciences, especially socio-technical systems theory (at the inception of which are the eminent physiologists L. J. Henderson and A. V. Hill).

Cyril Burt is let off with a tolerant phrase—"the things the late Cyril Burt wrote in his old age"—followed by a homily about questions of fact versus questions of policy. But the whole point about Burt is that he was the psychologist to the London County Council, sat on innumerable committees formulating policies which are still fundamental to British education, and that he cooked his data to suit his social and political preconceptions.

Reports to the LCC in which he refers to cannot be found, even in the LCC printers' records; the samples and data of his twin studies grew from citation to citation and display a (literally) unbelievable numerical precision. There is even some doubt about the authorship of papers signed by one or two of his supposed colleagues (whose very existence is not certain).

I cannot think of a better example of a case which will not conform to Professor Huxley's boundary. The values, theory and policy came first, and the findings were created, embroidered or added up to suit them.

Of Shockley—the "courageous" Shockley who was pilloried for proposals for IQ research and prevented from getting an honorary degree at Leeds (for his Nobel Prize-winning work on semiconductors)—Professor Huxley says in a throw-away line: "It is true that Shockley was, at the same time, advocating eugenic measures that were not acceptable in public opinion."

On this argument, it would be an insult to suggest that interested parties should have no say in the advocacy and design of politically sensitive research programmes. Yet the whole debate over IQ is ultimately about black phenotypes and drug research programmes. Putting the matter another way, isn't it a shame that the German (later American) propulsion expert Wernher von Braun received no honorary degree from London University for his contributions to rocketry?

Those are cases he does mention; what about some he doesn't? Among Nobel laureates there are Konrad Lorenz and Sir Hans Krebs. Where do we draw the line between Lorenz's social Darwinist, racialist and eugenic Nazi pronouncements in 1940; his essays on instinct and other aspects of biologism; his ethological explanation of student radicalism; and his writings on civilization in the last decade?

And how do we explain away Professor Krebs' little essay "Sanity Facts of Life: Biology and Society", given from a distinguished scientific platform and published and republished in reputable journals (*Proceedings of the Royal Institution of Great Britain* and *Perspectives in Biology and Medicine*). Krebs argues that the facts of biology (already most radical causes from progressive taxation and better wages to feminism and world peace. He is at pains to stress that he is speaking purely as a biologist.

The issues raised bring us to books such as *Sociobiology, The Selfish Gene* and *The Inevitability of Patriarchy*. These raise vexed—very vexed—questions, but they will not be adjudicated by trying to police a line between fact and value, science and society, or ethics, or policy.

The same can be said of recent debates about human rights in the International Congress of Physiology, the Institute of Physics, the Royal Society and indeed the World Psychiatric Association's meeting in Honolulu. Professor Huxley is prosecuted with the independence of science. It is ungenerous and politically naive to say: "If a scientific body publicly takes a step whose justification is political and not scientific, it will lose the right to claim that it is acting purely in the defence of science on some future occasion."

There are no fences on that range. The label "political" nearly obscures that dissidents in the Soviet Union not only defend free speech but the rights of people who wish to emigrate (usually Jews) and to have jobs in science, technology and medicine. Where is the line between politics, nationalism, racialism, medicine and science?

It is a tactical question—not one of epistemology or boundary-maintenance—whether at a given time it should be the Royal Society which protests on behalf of dissidents or (usually much less effective) human rights organization; or congresses or individuals or other groups, just as it is a matter of tactics whether at a given time to play cricket, football or Rugby with South Africa.

If we keep our eye on the ball rather than the clubhouse, we see that the issue is how best to promote fundamental human rights in South Africa and the Soviet Union. It is depressing that the division of labour has so successfully compartmentalized our humanity and solidarity.

These are all examples of the narrow way Professor Huxley looks at the issues. He should do more homework. The debate is not merely about people being shouted off platforms or attending congresses; it is also about much broader and deeper issues.

It is no longer good enough for eminent specialists in science and scientific administration to look up from years at the workbench and in running busy and productive laboratories, journals and organizations, and to pronounce on the state of the border between science and society as conceived by scientists, scientific philosophers and social scientists. That formulation—like the claim for the neutrality of science—is blinkered, question-begging and profoundly self-serving.

The world and the debate have moved a long way on. For compelling visions, I would recommend Daniel Bell's *The Coming of Post-Industrial Society*, wherein the scientists and other experts are far from Independent and Harry Braverman's *Labour and Monopoly Capital: The Degradation of Work in the Twentieth Century*, wherein they are far from neutral. For a more general view of the relationship try Ernest Mandel's *Late Capitalism*, chapter 6.

Some scientists, such as Sir Peter Medawar, are a bit better at this game than others, but they all insist that it is the scientist and the philosopher of science who places and polices the boundary. Various pressure groups are struggling to eliminate this presumption, and thereby eliminate the authority relationship (which is not the same as wishing away authoritativeness). The scientists and other experts must convince the rest of us time and again—each case on its merits—and not merely elicit our deference.

There are already examples of a better relationship between scientists and the wider community. Feminists, for example, increasingly require gynaecologists to explain and discuss until the patient is in a position to take part in decisions about her own body and/or her unborn child's. They, like trade unionists are insisting on their own health and safety standards and experts, and are not content to leave the state or the employer to set and maintain standards.

Similarly, the people of Cambridge, Massachusetts, have—through their local council—required that scientists refrain from conducting genetic engineering experiments unless and until certain public interest conditions were met.

The point about science is not merely one of evidence. It concerns, more importantly, which questions a society wants—through its science—to pursue. This extends from the most general features of a philosophy of nature and society to its most mundane facts.

## *Framework of assumptions*

At the most general level, a given socio-economic order constitutes and is constituted by a world-view, which includes a framework of assumptions and methods about what is known, what is discoverable and how to set about discovering it. At an intermediate level, certain sorts of issues preoccupy investigators at a given phase of development of a socio-economic order: classification in the late eighteenth century, origins in the nineteenth, mechanisms and abilities in the present.

The last of these preoccupations has been linked with the dominance of machinofacture, the division of labour and the need for quarements in this period. It is unsurprising that the investigators who favour the existing order would propose and defend certain universals, and that radicals—and some liberals—would say that it is positively wicked to pursue them.

They are in stark conflict over this because they have competing visions of the social order. It is not the invulnerability of scientists' right to ask questions which we should focus on, but the social and political debate over which sorts of questions to ask.

It is right that these issues should be in the public domain. Science, technology and medicine should have to compete with other priorities and values, and those who say so are not merely looking for scapegoats or thinking wishfully. The scientist who says he has more important things to do than spend time on these debates has been sheltered for too long from public debate.

Looking more deeply, one does not want to see the topics for debate to result in the level of Hurt, Jensen and Shockley. The hand that holds the pen that can write about a section of the population (ex hypothesi, the majority) which might mistakenly conclude "that they are being unjustly excluded from the more interesting and influential jobs", has lived too long and too exclusively in the social milieu of what Noel Annan has called "the intellectual aristocracy" (Darwins, Keynesses, Adrians, Cornfords, Huxleys, Wedgwoods, Huxleys, Bloomsbury, Oxbridge).

The issue is entirely posed within an elitist, ordinally ranked, meritocratic hierarchy of intelligence. Ingently and monstrously slips in the conclusion that if ability (I leave aside large questions here) were largely inherited, it would be just to exclude people from interesting and influential jobs. To reject this comfortable (for some) nest of assumptions, and to raise the possibility of sharing out unpleasant chores and a voice in policy, is not to call for the elimination of diversity, but for the abrogation of privilege based (here's the injustice) on genes.

Why is a more equitable mixture and distribution of mental, manual and clerical tasks not as obvious a priority as universal access to medical services promoting health (Health Service)? For that matter, why is this question not far more important than the ones "courageously" posed by Shockley?

Professor Huxley's way of formulating the issues sets them up in a way that is hard—even boorish—to ask, much less to divert resources and energies to changing the framework of debate, the division of labour and the mode of production within which they are considered.

The social, political and policy issues are not, therefore, "answering the questions." They determine the division of labour in society, among academic disciplines, the choices of domains, topics, issues, questions, the allocation of resources, how much to persevere, what would count as an answer.

Professor Huxley would have us believe that things were better in the old days. His equanimity contrasts with Biblical literalists who opposed Darwin, and expresses nostalgia for the prudence and good respect for evidence of his grandfather's generation.

He is very glad that Darwin was not impetuous, and collected evidence for twenty years before publishing his theory. Well, things were not so simple in those days either. For example, he doubts that any scientists openly opposed Darwin on the basis that evidence contradicted the idea of a divine element in the spirit of man.

William Whewell (the man who coined the term "scientist") and also as Master of Trinity would banish *On the Origin of Species* from the college library. So did the Cambridge professor of geology, Adam Sedgwick, and his great predecessor Huxley doubts were used by any scientists. He wrong on Darwin on just this point (*Life and Letters of Darwin*, II: 236). Charles Lyell also stressed conscientiousness.

T. H. Huxley: defender of Victorian science, or of Victorian society?

## *Evidence or policy?*

My next example is nearer home and shows that even the most admirable and cautious separation of fact and value cannot always distinguish what is evidence from what is policy. In 1865, T. H. Huxley at the height of his prestige and eloquence (no older than Russell) wrote an essay, "Emancipation—Black and White", in which he welcomed the freeing of the American slaves and favoured female education.

So much for enlightened policy. About the evidence he wrote as follows about blacks:

> It may be quite true that some negroes are better than some white men; but no rational man, cognizant of the facts, believes that the average negro is the equal, still less the superior, of the average white man. And if this be true, it is simply to credulate that, when all his disabilities are removed, and one progressive relative that may be held and in favour, as well as no oppressor, he will be able to compete successfully with his bigger-brained and better-favored white brother in a contest which is to be carried on by thoughts and not by fists. The highest places in the hierarchy of civilization will assuredly not be won by the sons of Anak—dusky cousins, though it is by no means necessary that they should be restricted to the lowest.

And women?

And the result? For our part, though both in prophecy, we believe it will be that of other examples above. Women will find their place, and it will neither be that in which they have been held, nor that to which some of them aspire. Nature and nature law will not be repealed, and no change of dynasty will be effected. The big chests, the massive brains, the vigorous muscles and vast frames, of the best men will carry the day, whenever it is worth their while to contest the prizes of life with the best women.

The issue is not where the boundary between facts and values. Social and political beliefs—including wishful thinking as well as false consciousness—generate the interest, the framework, the issues and questions and the criteria for an acceptable answer. And scientific eminence provides and is used as a platform and authoritative basis for propaganda and legitimating social, political, economic and ideological positions; which is fine, as long as no one is deceived into thinking that the debate is not political.

Professor Huxley says that he does not think scientists should have a special say; but they do, and their manner and matter of his argument show that he knows it and depends on it. He induces a familiar deference on the part of lesser scientists and laypeople which obscures a deeper irony. That is, throughout the address—even in the passage advice extracted from Darwinism and from physiologist research—he marches back and forth across the alleged boundary between putatively neutral evidence and policy, ethics, social values and ideology, which he is at pains to maintain.

Perhaps most ironic of all, he thinks it unreasonable that the scientist should be given a greater share in decision-making than his (sic) fellow citizens, because science can only provide answers to the simplest of questions—only one ingredient of the many involved in a decision. Then where does he get off pontificating about science and society in this simplistic way? I'll always think of this as Huxley's petrard.

*Dr Young is author of* Mind, Brain and Adaptation in the Nineteenth Century, *and a number of studies in the history of biology; he is also active in the radical science movement.*



*A hundred internationally distinguished scholars have been meeting in Toronto to discuss the role of universities in western societies. Michael Binyon reports*

# Hardliners insist on German criticisms

In response to the strongly worded feelings of almost all the conference participants, the Council's Board approved the sharply critical report produced earlier this year on West German universities.

The report (*THES* June 24) said the future of West Germany's universities was threatened by intense politicisation and extremism. Recent government reforms to encourage democratic decision-making had "encouraged and institutionalized" extremism. The universities were in serious danger of being "subverted by Marxists".

It called for a modification of the laws on the governance of universities, reintroduction of an academic hierarchy within universities and much sharper disciplinary measures against striking students.

The report produced an uproar in Germany. The Toronto debate on the report was almost as contentious: not because the conference members disliked it but because they resented the attempt by its authors to tone down the language and modify the criticism.

The history of the report, as presented to the conference, suggested a sorry muddle. At some stage the council gave the German Government its word that it would take the reaction of officials into account before the report was published. This pledge seems to have been forgotten until the last moment, however, and it was only after the report was ready for circulation that it was hastily stamped "Interim."

The result was that the German Government was told a final version would be produced. Dr Charles Frankel returns the "interim" report in the light of German reactions and to correct some errors. His version kept the 13 conclusions and recommendations, but differed substantially in tone and style. It cut out some of the harsher criticisms; it praised some of the recent reforms; it was more optimistic about the future; and it attempted to put the recent difficulties more in a historical context.

From the start of the debate nobody liked the Frankel version. Participants felt the impact of the original had been lessened; they disagreed with the more optimistic tone; and above all they believed the council would look silly if it tried to back down from its original position.

Some speakers picked out specific changes that were damaging. For example, in the first report, the authors said: "We do not know whether it is theoretically possible to make the group principle work in the university." The revised version ran: "The Gruppenprinzip . . . is the framework for the foreseeable future. We believe it is a workable principle. . . ."

The most persuasive argument against any change was that the "interim" report had deliredly received extensive coverage in the German press. If a second done were issued, it was argued, the press would concentrate simply on the differences between the two and ask why they were made, and whether they were the result of pressure from the German Government.

The council voted to remove the "interim" label from the first report, and endorsed it. It also resolved to amend some minor errors in a new printing, and to follow the report up with background evidence and additional conclusions, to be published in the American academic journal *Minerva*.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# 'Our responsibility is to truth'

Democratic governments do have the right to demand that universities play a full and responsible role in society, but at the same time universities must fight any attempt by the State to dictate to them or to politicize their workings.

This was one of the key conclusions reached by 100 distinguished scholars from western Europe, Japan and North America at a conference at York University, Toronto, earlier this month. They were especially concerned by the "immense bureaucratization" of universities in Europe, the lowering of academic standards brought on by rapid expansion and threats both from outside and inside the universities to academic freedom and autonomy.

The occasion was the second conference of the International Council for the Future of the University, a body dedicated to the traditional concept and values of a university and strongly opposed to many of the changes that have taken place in universities since 1968.

The first conference, in Venice in 1973, was more urgent in tone and theme, and dwelt on what the founding members perceived as the imminent collapse of western universities as centres of scholarship and research. Participants then focussed on what they saw as the damage being done to universities by student unrest and the "cowardice" of academics in not resisting their demands.

This time the theme was the proper relationship between universities and governments. The demands of governments and the ever-increasing amount of regulation are seen by many senior academics and administrators as a grave threat to university autonomy and to free inquiry. But though there was little disagreement at Toronto over the danger, specific complaints varied so much from country to country (affirmative action in the United States, money worries in Britain, centralization in Scandinavia, politicization in Germany) that no single theme or concerted plan of action emerged.

The range of discussion was outlined on the first day by Professor Charles Frankel, professor of philosophy at Columbia University and president of the International Council.

He said universities were now under pressure for quick results. They were also peculiarly vulnerable to fashionable political creeds, and many were now living with outdated reforms introduced by governments 10 years ago.

The greatest danger was that of ignorant meddling by bureaucrats—a regulation here, a supposed harmless question there—whose net effect would be "to instal public officials as felt presences at every faculty meeting."

Dr Frankel said universities had to fulfil their social responsibilities, but they knew better than others that the most fundamental of these was the protection of free inquiry and the creation of conditions in which the search for truth and the education of the young were most likely to progress.

Other speakers at the conference included Dr Michio Nagai, until recently Minister of Education in Japan, Dr David Mathews, American Secretary of Health, Education and Welfare in President Ford's Cabinet, Dr Frederick Dalzell, chairman of the University Grants Committee and university presidents, professors and Nobel Prize winners from 15 western countries.

Among the participants were Sidney Hook, Seymour Martin Lipset, Ernest Nagel and Edward Shils from the United States, and Max Beloff, Jean Floud, Julius Gould, Kenneth Minogue and Rosemary Murray from Britain.

The keynote speech was by Ricardo Diez, for many years an official in such international organizations as the World Bank and Unesco and now responsible for the new Spanish Government's policy of liberalization in the universities. He emphasized the importance to universities of government money, and said in return for this universities had an obligation to be accountable to democratic governments and to society as a whole.

Edward Shils, professor of sociology at the University of Chicago and a Fellow of Peterhouse, Cambridge, included affirmative action in the United States in his review of unwarranted Government attempts to influence academic appointment.

Explaining the historical background, he said: "It is not explicitly stated that the best qualified and most promising candidate must be slighted in favour of one less intellectually or academically qualified if the better qualified candidate does not possess the desired ethnic or sexual characteristics while the less qualified one does.

"Nonetheless, the results are clear. The Federal Government has, under threat of the withholding of financial support, imposed what are obviously non-academic, non-intellectual criteria of academic appointment and many universities have attempted to comply, especially in the social sciences and the humanities."

Professor Shils said even this was not enough. It was no longer sufficient for a university department not to discriminate on grounds of race or sex. It must in fact discriminate in favour of "minorities" in order to make up retroactively for the moral failings of earlier generations.

## Council emphasizes need for standards

"The values in which we believe have been distorted by many political authorities and a few scholars", said a conference resolution. Over the past 10 years, "we find that 'merit' 'selection' and 'excellence' have been transformed into words associated with repression, exploitation, discrimination and even fascism."

The "crying need" for academic reform had been corrupted. It should be evident "that the attack on selection abandons standards, the attack on merit refards mediocrity, the attack on excellence exalts inferiority and the attack on competence creates a world of incompetence."

The council said it was "unthinkable" that this "debasement and folly" should occur with the "blessing or the silent consent of the scholars and teachers themselves."

# 1968—year of disaster

One of the most provocative sessions of the conference was on interim report on a major project the council has undertaken—the synthesis and analysis on an international scale of the changes and reforms in European universities (not including Britain) that were made as a result of the student revolt 10 years ago.

So far a tentative summary has concluded that the changes have nearly all been catastrophic for universities. "When started out as a process of democratization has ended up as a process of immense bureaucratization" said Dr Hans Daalder, the coordinator of the project. "What started out as democracy has ended up as straight control."

The report is composed of individual chapters on each west European country and many of the drafts were circulated at the conference. Professor Daalder, from the European University Institute in Florence, outlined a preliminary summary. The report is to be published in a few months.

The summary said European universities were now saddled with immensely time-consuming and bureaucratic forms of governance. "Reforms" imposed on them by governments anxious in the late 1960s to forestall the demands of radical students had taken the academic control of universities out of the hands of the academics, and in many cases given it either to government officials or to a combined majority of students and non-academic university staff.

These experiments with university democracy, however, had not made universities any more responsive to the urgent social questions (the optimum number of students, financial retrenchment, curriculum reform, new career structures for teachers and so on) than they had been under the old system of dominance by professors.

Since representative structures were now impossible to undo, the result was an increasing stream of commands and demands from central ministerial level, which forced universities in turn to strengthen their own bureaucracy to cope with "performance budgeting", "research planning", "efficient educational programmes" and so on.

Dr Daalder said the effects of the revolt were much more drastic in Europe than in Britain or the United States. This was because in nearly all west European countries higher education was more directly under the control of Ministers of Education, and legislators therefore were traditionally able to intervene.

The student unrest caught universities and governments completely unawares. The result was that in order to head off further trouble, many European universities made local compromises in the expectation that these would not be final.

In many European countries the result was a strong reform against a background of "strong" talk about "direct democracy". Opposition to reform was equated with the unfashionable creed of elitism and conservatism.

But few anticipated the far-reaching effect of these reforms. The preoccupation with university governance excluded consideration of other more pressing issues which lay beneath the student revolt and were obscured by it—the relationship of universities to the labour market, the question of size, the career structures of teachers and so on.

These things again raised their heads after the new structures of governance had been set up, and at a time of tightening budgets. Universities found difficulty in coming to conclusions when so many conflicting interests had a say in decision-making, and ministries, losing patience with the universities, gradually assumed more control themselves.

Professor Frankel: 'outdated reforms'.

Accusations of academic cowardice in the face of government were a leitmotif of the conference. The bureaucratization of European universities was possible, it was said, because of the spinelessness and passivity of university teachers. The destruction of academic standards and values was the result of the swift concessions made to students after 1968.

One of the most embattled of all the participants, Professor Jeanne Hersch from the University of Geneva, said she was horrified by the "complete paralysis" of her colleagues in the wake of radical politicking at her university. She said the politicization of a university could happen anywhere at any time. It came from within the university. "There is no more science in the old sense of the word, it is political action. It is inside the subject and has destroyed the idea of objectivity."

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Marxism in higher education

# Danger of taking the threat from the Left too seriously

The Conservative chairman of an outer London borough's education committee, bewildered by the metamorphosis of the local college of technology into an embryonic polytechnic, once remarked: "Sociology, social work, socialism—it's all the same thing." As a distinguished professor of sociology, Professor Julius Gould, the author of *The Attack on Higher Education*, can hardly accept the wording of this rather crude, but expressive, formula, but he and his colleagues do at times in their new pamphlet seem to sympathize with the spirit behind it.

There are three fundamental failures in Professor Gould's study of Marxist penetration into higher education, which was published this week by the Institute for the Study of Conflict. First, it fails to identify adequately who precisely is trying to subvert our academic and cultural institutions. Secondly, it fails to convince the uncommitted that there is a threat on the scale he and his colleagues suggest. Finally, they fail to suggest what should be done to combat this Marxist menace if it does exist.

On the first point the subtitle of the pamphlet—Marxist and *Radical* Penetration (our italics)—reveals this failure of definition. Obviously in the view of the study group all "subversives" are not Marxists: nor are all Marxists "subversives" and even those Marxists who are are subversive in different ways and at different levels of sophistication. So to be sure of hitting their target Professor Gould and his colleagues employ the technique of the blunderbuss. But it is just not good enough to justify this by saying that Marxists are sometimes "coy" about revealing their true loyalties.

Is it even sensible, let alone scientific, to lump together David Harvey, author of *Social Justice and the City*, M. F. D. Young, the Campaign for Academic Freedom and Democracy, the new president of the National Union of Students, Community Development Projects, Case Con, the magazine of radical social workers, and many others? Here the study group seems to be indulging in precisely the same crude but suggestive oversimplification of which they accuse their opponents.

The second objection to Professor Gould's analysis arises from the first. Just as it is not always clear who precisely is being accused so there is a lack of definition about the charges. He suggests that "selected university departments have fallen squarely into radical or Marxist hands" but fails to say which these are or indeed how many have been captured by the Left in this way. Again, he suggests that these extremists "rely, like any other network, upon mutual support with the making of appointments" which hardly seems surprising.

Indeed when all the ambiguity and qualifications are remembered and the rather melodramatic, even lurid, prose is discounted, all that is really been said is that some departments in universities and polytechnics have a strong left-wing character. Surely this is nothing more than part of the desirable diversity of the academic world. After all, there are many departments with a strong right-wing character as well. No sensible person supposes that the values that inform, say, Nuffield and All Souls in Oxford are the same: no civilized defender of a pluralistic academic tradition would consider it desirable that they should be.

Bias cannot be eradicated from higher education without at the same time sapping the vitality of its intellectual life. Parliamentarism, Whiggery, clericalism, all seemed in their day self-contained systems of values with ambitious to intellectual monopoly, as Marxism appears today to Professor Gould and his colleagues. Yet it was their influence, and the reactions they provoked, which produced the academic tradition which he now urges us to defend.

What is important surely is the balance of bias—a well-tried principle that once weighed Anglican King's College in the Strand against that Godless institution in Tower Street. Professor Gould claims there is "something clearly disproportionate in the strength of the extreme Left in the educational world" but as he has failed both to identify the "extreme Left" or to give any quantitative measure of its strength it is difficult to judge the accuracy of his claim. It is just as possible that the present virulency of the Marxists is a recognition of their insecurity in face of a liberal majority as an indication of their arrogance as "the long march through the institutions" triumphantly proceeds.

The third failure is perhaps the most easy to forgive. We are told that we must understand how wrong the radicals are first in what they say and then in what they do. This is not difficult. Most people in higher education are not hard-line Marxists or indeed Marxists at all and they recall from the kind of vulgar clichés derived from Marx that pass for learning in a few departments in certain disciplines. Nor is it news that the extreme Left is not distinguished for its respect for constitutional democracy.

But we are not told what we must do. Yet if the threat to intellectual pluralism is as great and as imminent as the study group suggests, surely something positive must be done to meet it. In one sense it may be a tribute to the liberalism, however short-tempered, of Professor Gould and his colleagues that they do not suggest blacklists and witch-hunts. Perhaps they realize after all that such repressive measures strengthen the cause of their opponents. Perhaps they realize too that such measures are incompatible with a sense of liberty, academic or political: that to fight their opponents with such weapons is to join them.

However, this pamphlet is a polemic tailored to the prejudices of the Press, so likely to receive wide publicity. As such it is a form of intimidation, not just of the extreme Left which perhaps deserves it, but of any individual, but of a much wider section, which does not. The real target of The Attack on Higher Education is not the Marxists, who are doing the attacking but the silent majority which allegedly is making such a stand of defending liberal values.

Here perhaps Professor Gould has hit on a grain of truth. It is the decay of the centre which has allowed more radical ideologies to thrive. But it is also the direct decline in the self-confidence of the centre that has allowed bodies such as the Institute for the Study of Social Conflict to be taken more seriously. Professor Gould obviously feels that the first of these two phenomena is much more important than the second: The THES believes that is the other way round.

The demoralization of the centre is easy to understand. The debris of deflationary times, the cruel ahead for social democracy, intellectual rescrutiny is almost dry rot, the death of Anthony Crosland that's one in sight to refill it; it is taunted by four-letter politics of the extreme left, it fears its civilized values will be submerged in a tide of populism and nativism; the belief in progress is blighted by philosophical doubts and a mediocre economic growth. The moderate Right face similar problems.

Yet its essential values remain intact in higher education and the outside world. And it is these liberal values that Professor Gould now invites us to trample underfoot in our rush to defend them against an external threat which, where it is not entirely imaginary, is puny both in the number of its supporters and its intellectual sophistication. We should not sell our souls to this pretty Mephistopheles.

# LETTERS TO THE EDITOR

## Social work admissions at NELP

Sir,—Although the Council for Education and Training in Social Work is still in discussion with North East London Polytechnic about the future of the two-year Certificate of Qualification in Social Work course, following the withdrawal by the polytechnic of first-year places, it would be right to point out to your readers that we do not view the matter in the way Dr Brosan describes in his letter (THES, September 9). The council's statement of August 26 gives a full account of the reasons for its action.

In brief, the council's view is that the original decision not to admit the individual student was properly taken under procedures between the polytechnic and the council. The polytechnic, its governors and its academic board are presumably bound by such agreements. The agreement may, of course, be changed by mutual consent if the selection procedures are found inadequate, but should not be changed, as it were, retrospectively.

Further, the procedures should not be capable of yielding to pressure to admit a particular individual, although it is quite reasonable that there may be a quota for a special group of applicants, provided the individuals within that group meet defined criteria.

We also accept that any admission procedure involves fallible judgments, in the same way as do examination procedures. This is widely accepted and is no reason for such judgments to be set aside. Although the polytechnic's authority in these matters is vested in the academic board, it is difficult to see how that authority can be exercised in practice except by a group of staff who must be seen to have its trust and confidence.

Yours faithfully,
PRISCILLA YOUNG,
Director,
Central School for Education and Training in Social Work.

Sir,—Dr Brosan's letter (THES, September 9) concerning the closure of the CQSW course at NELP is too limited a view to present to your readers. Firstly, there is no mention of the request made by the course tutors that Mr Vyas be independently assessed. This request which constituted a potential solution was rejected by the Joint Education Committee, which furnished no reasons.

Secondly, although Dr Brosan cites the agreement for reserving places on the course for Education Welfare Officers from the London Boroughs of Barking, Newham and Waltham Forest, he omits to say that the last sentence of this agreement states: "All candidates will be expected to comply with the usual selection procedures".

As NELP's director says admission policy and procedure is the domain, under the articles of government, of the academic board. It is interesting to note that Dr Brosan, the chairman of this board, has never asked the board for an interpretation of the above statement. Instead he has been willing to abide by the statewhat eccentric interpretation of the words: "usual selection procedures" which has emerged from the JEC. Under the articles of government the JEC has no authority over the running of courses or over selection procedures but it seems that he is not opposed to its assuming these powers.

Not only is he not opposed in the pastiun of the JEC but he sees it as support for the polytechnic in a dispute with the central council. It would be interesting to learn why he is receiving the benefit of such dubious support. Since both the students' union and the NATFHE branch have condemned the JEC decision it is apparent that when the director says the polytechnic be means the director.

In another article published in the same issue ("Governors form rival body") ex Dr Brosan's letter, our director is concerned with building a power base to combat the "increasing capriciousness and malevolence" (sic) of the local education authorities. If I had been asked to sum up the outstanding features of the JEC's action throughout this case I could hardly have chosen two more opposite nouns.

Yours faithfully,
TOBY GRAINGER,
Acting president,
Student's Union,
North East London Polytechnic.

Sir,—Your leader of September 2 concerning the non-admission of Mr S. Vyas to the CQSW course sets out many of the facts quite fairly. But I need to clarify my personal position. I am wholly in sympathy with Mr Vyas, and I think that the social work staff here have acted with less than common sense. Their procedural judgment, which I respect, is that Mr Vyas would not make a good social worker. My problem is that his immediate professional superiors in Newham, where he is actually working as a social worker, think that not only is he a good social worker but a very good one. I respect that professional judgment as well.

Obviously, with such conflicting professional evidence, there is doubt. And since by agreement made about a year ago some places were reserved specifically for people from the boroughs of Barking, Newham and Waltham Forest, I think quite strongly that he should have been given the benefit of the doubt and admitted to the course. It is in this respect that common sense should have prevailed.

The Central Council for Education and Training in Social Work has a fair point when sir says admission to the course must be under the rules it has approved, and which have the ultimate sanction of the Privy Council. But it has not taken sufficient heed of the Articles of Government of the polytechnic, which give the academic board the final say on admissions. These articles have the approval of the Secretary of State for Education and Science. This issue needs sorting out in principle. The central council, it seems, does not sufficiently appreciate that it is dealing with a formally designated polytechnic.

For this reason, among others, I think that the attitude of the Joint Education Committee of the boroughs concerned is correct, and that of the central council is wrong. I do not think that the JEC is dictating to the polytechnic; to the contrary, it is backing it in a dispute with an outside body. If other local authorities would do the same, the benefits would soon become apparent.

Yours faithfully,
G. S. BROSAN,
Director,
North East London Polytechnic.

## Professor Elton and change in schools

Sir,—Professor Lewis Elton writes (THES, September 9): "Unfortunately since the proportion of working-class children reaching higher education today is not significantly different now to the years before the Second World War, obviously we have largely failed to tap this source. Presumably we have therefore ... instead dipped more deeply into the middle-class barrel."

Perhaps Professor Elton could explain how the proportion of working class students can remain the same while the proportion of middle-class students the balance of the total can increase. This seem an arithmetical impossibility.

Numerically the number of working-class students has greatly increased since before the war, while the relative size of the working class has decreased; thus a larger proportion of working class children go on to higher education than formerly, considered as a proportion of their class.

Sir,—Among a number of sweeping generalizations made by Professor Elton is one taking British universities to task for not following the American practice of making allowance for the regional variations in "of considerable magnitude") which occur in the distribution of A-level performance in England and Wales. While it is true that no explicit scaling, or normalizing, of A-level results according to region is done, it is, I believe, naive to assume that the factors which could be contributing to atypical or unrepresentative results are in fact ignored.

A valuable part of most interviews is that which explores the background to the pupil's work, the conditions under which he is studying, the kind of facilities available, the way in which his teaching is conducted, and so on. Although a deprivation may well have a national average hurdle, in terms of A-levels, below which it may doubt whether entry is wise, the actual offer made may well often differ markedly from the town, when the variety of factors which may influence performance are taken into account. I believe this to be a far more effective way of dealing with the problem which Professor Elton raises than by some convenient "blanket" allowance based on averages of widely-varying parameters arising in a regional survey.

Two points spring to mind concerning his comments on the fact that students with very *low* A-level grades nevertheless have a good chance of obtaining a degree, and that it would be wrong not to do them out of it. The first is the changing intent the teaching to the changing intake". It is by no means self-evident that all the forms of higher education available in the university is necessarily the best for an individual. A good standard of pass in a non-university type course may well lead to greater fulfilment than what might be a marginal pass in a degree course. Many departments here for many years been carrying out the kind of adaptations that Elton calls for.

Yours faithfully,
G. S. HEAVENS,
Professor of Physics,
University of York.

*Letters for publication should arrive by Tuesday morning at the latest. They should be as short as possible and the editor reserves the right to cut or amend them if necessary.*

# CLASSIFIED ADVERTISMENTS

## Universities

### NEWCASTLE COLLEGE OF ADVANCED EDUCATION
### Australia

Newcastle College of Advanced Education is a multi-purpose College of advanced education with its own governing Council. In 1977 a wide range of courses has been offered in the fields of Teacher Education, Art, Liberal Education and Technical and Further Education. These courses will be complemented in 1978 by courses in Nursing and Social Work. The E.F.T.S. in 1977 is 2,200 with a total enrolment of 2,500. There will be a modest increase in student numbers in 1978.

The academic structure is under review. Presently it has a departmental base but it is likely that the new structure, while retaining departments, will be based on a school system and that the revised structure will come into effect early in 1978.

#### HEAD OF DEPARTMENT OF ART
SALARY $A24,504
(Re-advertised)

The Art Department has an academic complement of 20 with approximately equal and ancillary staff and offers studies in painting, sculpture, graphics, drawing, design, ceramics and glass, to Diploma and Degree students.

Mr. L. A. Ware, an eminent sculptor and foundation Head of the Department, is retiring.

The College is seeking to appoint an artist of high repute from any field of Fine Art. An interest and experience in Art Education would be an advantage. The appointment, in the first instance, will be as Head of Department of Art but, in conjunction with the revision of the academic structure of the College, a School of Visual and Performing Arts will emerge. The College activities in Art and Crafts, although Arts will embrace the College activities in Art and Crafts, although there will continue to be a separate Department of Art to service the academic requirements of the School. It is hoped that the person appointed will have qualifications which make him suitable for consideration for headship of this likely new school.

#### SENIOR LECTURERS
SALARY RANGE : $A19,290-$20,885

SOCIAL WELFARE (Re-advertised)

The successful applicant, who will be responsible for the Associate Diploma programme will be expected to establish and implement criteria for the training and accreditation of field development supervisors and to supervise the Field Development Programme. He/she will also be responsible for establishing a student placement system and procedures for the supervision of students. In addition, he/she will be responsible for developing courses and teaching in one or more of the components of the Social Welfare Course, e.g. Family Welfare, Medical Welfare, Counselling.

The successful applicant should have had experience in Tertiary Education including wide experience in the supervision of students and administrative experience in the organisation of field placements. Candidates must be eligible for membership of the Australian Association of Social Workers and should have relevant field experience. A knowledge of overseas practice would be an advantage.

SPECIAL EDUCATION :

The successful applicant will have responsibilities in the academic programme of the Department of Special Education and the clinical, research and teaching activities of the Special Education Centre. He/she will also have some teaching responsibility. In addition he/she will be expected to take a leading role in one or more of the following: Centre programme, communication disorders; learning disorders in secondary level children, severe handicaps and early intervention; learning difficulties in elementary level children, special education in high demand schools; developmental disabilities (particularly autism, severe retardation or brain damage); classroom teacher training and mainstreaming; severe developmental disabilities (particularly autism, severe retardation, or brain damage) or psychomotor disorders. The successful applicant should have strong teaching experience with normal and developmentally disabled children and some experience in applied research and clinical diagnostic procedures.

RECREATION—LEVEL II :

The successful applicant will be responsible for the development of courses of study, practical community field work supervision and academic research ordinarily in Recreation. Experience in sporting and non-sporting recreational activity across a wide section of the community will be an advantage.

The appointee of the Special Education Centre at the Newcastle College of Advanced Education would provide opportunities for the development of a research project relating to recreation within Special Education, e.g. recreation for the infirm, the disadvantaged, disabled and the aged.

QUALIFICATIONS :

Applicants for lecturer positions should normally possess a higher good Honours Degree or equivalent. It is essential that applicants demonstrate a desire and a capacity to apply their discipline in practical situations.

APPOINTMENT :

The term of appointment will be subject to negotiation. Some appointments at Lecturer level II may be on a limiting contract basis.

CONDITIONS OF EMPLOYMENT :

Appointment will be made to the College under the Colleges of Advanced Education Act and in terms of the College's By-law. Conditions of Employment have been determined under the Act and include attractive SHE Housing Loan and Superannuation Schemes and provision is made for study and recreation leave. Assistance will be provided for fares, removal and initial accommodation expenses for the appointee and their families.

The salaries quoted above will be subject to adjustment arising from any flow-on of the recent National Wage decision.

APPLICATIONS :

General information about the College and specific enquiries concerning the positions should be directed to the Association of Commonwealth Universities (Appts.), 36 Gordon Square, London WC1H 0PF.

Applications in writing must include personal information and full details of academic qualifications and experience and the names and addresses of three referees with phone nos. The original application should be addressed, marked "Confidential" to: The Secretary, Newcastle College of Advanced Education, Box 84, P.O. WARATAH, N.S.W. 2298, Australia, and should preferably be sent by registered airmail. A copy of the application must also be sent to the Association of Commonwealth Universities as above.

Applications should be lodged to reach Australia by 15 October, 1977.

#### LECTURERS
SALARY RANGES :
LEVEL II $A14,345-$16,420
LEVEL III $A12,348-$14,182

SPECIAL EDUCATION—LEVEL II :

The successful applicant will have joint involvement in the lecture programme and the training, research and clinical service activities of the Special Education Centre. Specific expertise in one or more of the following areas will be required: communication disorders; learning disorders in secondary level children; sensory handicaps and early intervention; resource-teacher training; regular classroom teacher training and mainstreaming; severe developmental disabilities (particularly autism, severe retardation, or brain damage) or psychomotor disorders. The successful applicant should have strong teaching experience with normal and developmentally disabled children and some experience in applied research and clinical diagnostic procedures.

RECREATION—LEVEL II :

The successful applicant will be responsible for the development of courses of study, practical community field work supervision and academic research ordinarily in Recreation. Experience in sporting and non-sporting recreational activity across a wide section of the community will be an advantage.

The appointee of the Special Education Centre at the Newcastle College of Advanced Education would provide opportunities for the development of a research project relating to recreation within Special Education, e.g. recreation for the infirm, the disadvantaged, disabled and the aged.

QUALIFICATIONS :

Applicants for lecturer positions should normally possess a higher good Honours Degree or equivalent. It is essential that applicants demonstrate a desire and a capacity to apply their discipline in practical situations.

APPOINTMENT :

The term of appointment will be subject to negotiation. Some appointments at Lecturer level II may be on a limiting contract basis.

CONDITIONS OF EMPLOYMENT :

Appointment will be made to the College under the Colleges of Advanced Education Act and in terms of the College's By-law. Conditions of Employment have been determined under the Act and include attractive SHE Housing Loan and Superannuation Schemes and provision is made for study and recreation leave. Assistance will be provided for fares, removal and initial accommodation expenses for the appointee and their families.

The salaries quoted above will be subject to adjustment arising from any flow-on of the recent National Wage decision.

APPLICATIONS :

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Applications should be lodged to reach Australia by 15 October, 1977.

SCIENCE (ANATOMY/PHYSIOLOGY) :

It is expected that the successful applicant will have specialist qualifications in the field and preferably be a registered medical practitioner.

He/she must be able to have a variety of courses in the field of physiology/anatomy, including analysis, to satisfy requirements for students in medical diagnostic radiography, physiotherapy associated with sport and other physical education oriented courses, psychological components of the Nurse Education Course.

### KELVIN GROVE COLLEGE OF ADVANCED EDUCATION
### BRISBANE

Kelvin Grove College of Advanced Education is an autonomous, multi-vocational college specializing in the preparation of pre-school, primary and secondary teachers. It offers a wide range of in-service courses for teachers which include a four year degree programme.

Applications are invited for the position of

#### LECTURER/SENIOR LECTURER IN MATHEMATICS

REF. NO.: 77/A/15

QUALIFICATIONS :

1. A higher degree in Mathematics Education, preferably at the Doctoral level, with major studies in Primary Mathematics Education.
2. Post graduate studies in mathematics would be an advantage.
3. Successful experience in teaching and developing Primary School Mathematics Programmes.
4. Successful experience in teaching and developing Mathematics Education programmes at the tertiary level is desirable.

DESCRIPTION :

That person appointed will be expected to work in the Mathematics Department within the Division of Science. The Department is presently offering courses in the teaching of pre-school, primary and secondary school mathematics towards the awards of Diploma of Teaching and Bachelor of Education offered by the College. The Department expects to offer a course leading to the award of Master of Education in Primary Mathematics from 1979. The Mathematics Department is located in a modern building with excellent facilities. A person with initiative, energy and experience is required who can contribute to the development of the above programmes which meet the needs of both schools and the community at large.

SALARY AND CONDITIONS OF SERVICE :

| | |
|---|---|
| Senior Lecturer II | $14,345-$16,420 per annum |
| Senior Lecturer I | $16,809-$18,884 per annum |
| Lecturer II | $19,290-$20,885 per annum |
| Lecturer I | $21,123-$22,505 per annum |

Conditions of service are comparable to those in universities and colleges of advanced education throughout Australia. Appointment will be made at a level appropriate to the qualifications and experience of the applicant.

DATE OF APPOINTMENT :

The successful applicant would be expected to take up duty by January, 1978, but no later than July, 1978. The College Council reserves the right to make no appointment and the right to invite applications.

CLOSING DATE :

21 days from the date of appearance of this advertisement.

Application forms and additional information are available from The Registrar, Kelvin Grove College of Advanced Education, Victoria Park Road, Kelvin Grove, Brisbane, Queensland, 4059.

Further inquiries may be directed to the Head of the Mathematics Department.

### UNIVERSITY OF GUYANA
#### VACANCIES
#### DEPARTMENT OF MINING ENGINEERING

Applications are invited for the following posts in the Department of Mining Engineering.

**1. SENIOR LECTURER :**

Applicants should have at least a Master's degree in Mining Engineering, and a minimum of five years' industrial and/or research experience. University teaching experience would be an advantage. The successful candidate will be required to lecture and conduct tutorials in Mineral Geology/Surface Mining at the Higher Technical Diploma level. He will also be expected to pursue research in the relevant field. He will be required to take up his post by November, 1978.

**2. LECTURER :**

Applicants must possess at least a first degree in Mining Engineering and be eligible for membership of a recognised professional institution. The successful applicant will be required to lecture in Geology/Mineral Geology/Surface Mining at the Higher Technical Diploma level. He will also be expected to pursue research in the relevant field. Teaching and relevant professional experience would be an advantage.

**SALARY SCALES (per annum)**

Senior Lecturer—Grade 2 $G12,350 by $540 to $13,300.
Lecturer—Grade 1 $G7,000 by $480 to $14,760.
Point of entry on the scale would be determined by qualifications and related experience.

Benefits include housing allowance, contributory Pension and Medical Scheme. Persons recruited from overseas will receive up to four free passages (i.e. for himself, wife and unmarried children up to age of 18 years) on first tour of duty. Gratuity at the rate of 12½% on completion of first tour of duty. Settlement Allowance.

Applications (8 copies) stating name, date of birth, marital status, qualifications and dates obtained, work experience (with dates), salary and accompanied by three referees (one of the referees must be the present or last employer where applicable), must reach the Personnel Section, University of Guyana, P.O. Box 841, Georgetown, South America, before 15th October, 1977.

### UNIVERSITY OF DAR ES SALAAM TANZANIA

Applications are invited for the post of

**PROFESSOR/ASSOCIATE PROFESSOR/SENIOR LECTURER IN FOREIGN LANGUAGES AND LINGUISTICS (ENGLISH)**

tenable as soon as possible and not later than May, 1978.

The Department's programme includes courses at undergraduate and MA level in Linguistics, English and French and the possibility of PhD supervision. The appointee, who will teach mainly in the English section, should be experienced in one or more of the following fields: English for academic purposes, English syntax and semantics, sociolinguistics, teaching of second language acquisitions, other topics in Applied Linguistics; he/she should be an outstanding teacher and administrator and willing to undertake administrative duties. Experience of Africa and knowledge of Swahili would be advantageous. Salary scale: Professor TC4,050 p.a., Associate Professor TC3,570-TC3,870 p.a., Senior Lecturer TC2,970-TC3,720 p.a. (TC=£1.39 sterling). The British Government may supplement salary in certain cases in range £4,182-£4,914 p.a. (sterling) for married appointees or £2,430-£2,988 p.a. (sterling) for single appointees (normally free of all tax and national insurance) and provide children's education allowances and holiday passages. FSSU, Family passages; biennial overseas leave.

Detailed applications (two copies), including a curriculum vitae and naming three referees, should be sent by air mail, not later than 6 October, 1977, to the Chief Academic Officer, University of Dar es Salaam, PO Box 35091, Dar es Salaam, Tanzania. Applicants resident in UK should also send one copy to Inter-University Council, 90/91 Tottenham Court Road, London W1P 0PT. Further particulars may be obtained from either address.

### THE QUEEN'S UNIVERSITY
#### Chair of Social and Preventative Medicine

Applications are invited for the Chair of Social and Preventative Medicine, which carries the headship of the Department of Community Medicine. It is a Joint Appointment with the Eastern Health and Social Services Board and is tenable from 1st January, 1978, or such other date as may be agreed. The Chair was vacated on 30th September, 1976, on the retirement of Professor Pemberton, assistantship with removal expenses is available.

*Further particulars may be obtained from the Personnel Officer, The Queen's University of Belfast, BT7 1NN, Northern Ireland (quoting Ref. 77/78). Closing date, 1st November, 1977. (Please quote Ref. 77/TH.)*

### UNIVERSITY OF SYDNEY
#### THE RAYMOND E. PURVES CHAIR OF SURGERY

Applications are invited for the newly established Raymond E. Purves Chair of Surgery in the field of Transplantation. Salary will be at the rate of $A35,192 per annum. A statement of Conditions of Appointment and information for Candidates may be obtained either from the Secretary General, Association of Commonwealth Universities (Appts.), 36 Gordon Square, London WC1H 0PF, or from the Registrar, University of Sydney, N.S.W. 2006, Australia, with whom applications close on 31 October, 1977.

### UNIVERSITY OF DAR ES SALAAM TANZANIA

Applications are invited for the post of

#### SENIOR RESEARCH FELLOW/RESEARCH FELLOW IN BOTANY (HERBARIUM).

Applicants should be holders of a PhD or an MSc in Plant Taxonomy and have working experience in a comparable institution; in the case of MSc holders, at least three years' experience in herbarium work will be required. Duties will include collections of vegetation, plant specimens from various localities in Tanzania, identifying the specimens, preparing them for deposition in the Botany Department Herbarium or for exchange with other institutions and, in general, maintaining the growth of the herbarium which currently has about 30,000 plant specimens. Salary scales: Senior Research Fellow TC3,970-TC3,720 p.a. Research Fellow TC2,480-TC2,970 p.a. (TC is equal to £1.43 sterling). The British Government may supplement salary in ranges £3,846-£4,182 p.a. (sterling) for married appointees or £2,344-£2,430 p.a. (sterling) for single appointees (normally free of all tax and national insurance) and provide children's education allowances and holiday passages; FSSU, Family passages; biennial overseas leave.

Detailed applications (two copies), including a curriculum vitae and naming three referees, should be sent by air mail, not later than 6 October, 1977, to the Chief Academic Officer, University of Dar es Salaam, PO Box 35091, Dar es Salaam, Tanzania. Applicants resident in UK should also send one copy to Inter-University Council, 90/91 Tottenham Court Road, London W1P 0PT. Further particulars may be obtained from either address.

### UNIVERSITY OF ZAMBIA

Applications are invited for

#### 2 LECTURESHIPS IN THE SOCIAL SCIENCE FOUNDATION COURSE

In the Department of Social Development Studies in School of Humanities and Social Sciences. Applicants should have a degree in any of the Social Sciences. Preference will be given to applicants with one or more of the following: (i) Experience in teaching at either first-year university or secondary school level; (ii) Experience of teaching quantitative methods; (iii) A background in more than one of the social sciences. Applications from people with more than one of the above qualifications are particularly welcome. Salary scale: Lecturer Grade I K5,700-K9,108 p.a. The British Government is unlikely to provide salary supplementation and associated benefits. Family passages; various allowances; supplementation and medical aid schemes; regular overseas leave. Detailed applications (two copies), including a curriculum vitae and naming three referees, should be sent by airmail, not later than 5 October, 1977, to the Chief Academic Officer, University of Zambia, PO Box 2379, Lusaka, Zambia. Applicants resident in UK should also send one copy to Inter-University Council, 90/91 Tottenham Court Road, London W1P 0PT. Further particulars may be obtained from either address.

### BRADFORD
THE UNIVERSITY
[illegible]

### DURHAM
THE UNIVERSITY
[illegible]

## Universities continued

AUSTRALIA

Applications are invited for the following posts, for which applications close on the dates shown. Salaries (unless otherwise stated) are as follows: Professor $A30,788; Postdoctoral Research Fellow $A12,593-$A14,465; Lecturer $A14,945-$A18,884; Tutor $A13,159-$A11,983; Half-time Tutor $A6,579-$A5,992.

Further details conditions of appointment for each post, method of application and application form, where applicable, may be obtained from The Association of Commonwealth Universities (Appts.), 36 Gordon Square, London WC1H 0PF.

University of Melbourne
**JAMES STEWART CHAIR OF SURGERY**
(The Royal Melbourne Hospital)
Applications are invited for this Chair, which will become vacant with the retirement of Professor Maurice Ewing at the end of 1977. The successful applicant must hold a medical qualification permitting registration in Victoria and may be a person with either general surgical or specialist surgical interests. Salary $A25,182.
11 November, 1977.

La Trobe University, Melbourne
**CHAIR IN ENGLISH/LITERATURE**
(Readvertised)
The Department of English teaches at all undergraduate year levels, and in addition there is a small graduate school. The Department offers courses in English literature from Chaucer to the present including American and Australian literature.
This vacancy has been created by the appointment of the Foundation Professor D. R. C. Marsh, to a Chair at the University of Western Australia.
20 October, 1977.

University of Tasmania
**LECTURER AND TUTOR IN INFORMATION SCIENCE**
A relevant consideration for selection will be the interests the appointee will bring to the Department. Other things being equal, preference may be given to applicants who have interests in one or more of the areas of operating systems, computer architecture, databases, commercial computing.
7 October, 1977.

Murdoch University, Perth Western Australia
**POST DOCTORAL RESEARCH FELLOW IN FINANCE**
Applications are called for the position of Post Doctoral Research Fellow in Finance at Murdoch University. The successful applicant will work under the direction of the Professor of Economics in the School of Social Inquiry.
The research will be in the general area of Australian financial institutions such as banks, building societies and finance companies and the economic environment in which they operate. The precise direction taken by the research will be agreed between the Professor of Economics and the successful applicant whose overall research interests will be borne in mind. By arrangement with the Perth Building Society, which has endowed the Fellowship, the Fellow will be responsible for preparing a report each year for inclusion in the Society's annual publication, Milestones. Applications will be considered from persons who can arrange secondment from their present employment. Applicants will be expected to have a postgraduate degree in Economics, Commerce, or some closely related discipline. The initial appointment will be for a period up to two years with the possibility of renewal for a further year.
14 October, 1977.

University of Melbourne
**LECTURER IN THE DEPARTMENT OF ENGLISH**
Applicants for this position should preferably hold a higher degree in English, with special qualifications in the language and literature of medieval England. The chief concerns of the appointee will be with the teaching of Old and Middle English and, if possible, Old Norse. There will also be opportunity to participate in teaching in other areas within the department.
The successful applicant will be expected to take up duties as early as possible in 1978 and will have opportunities to share in the teaching of both Pass and Honours courses, and to take part in postgraduate teaching.
15 October, 1977.

James Cook University of North Queensland
Department of Commerce
**LECTURER IN COMMERCE (EDP)**
The Lecturer will be primarily responsible for developing and teaching EDP subjects to students of a accounting. He will also be expected to develop an area of research, within areas which complement existing departmental programmes, most of which are applied and relevant to the region.
Applicants should have appropriate academic qualifications and/or experience in EDP. Expertise in managerial accounting or financial management would be an advantage.
31 October, 1977.

**LECTURER IN COMMERCE (COMMERCIAL LAW)**
Applicants should have appropriate academic and professional qualifications. It is desirable that an appointee has practised commercial law in Australia or New Zealand.
The Department of Commerce covers the fields of Accounting, Commercial Law and Business Economics. There are two lecturing positions in Commercial Law within the Department.
31 October, 1977.

University of New England, Armidale, New South Wales
**ITALIAN TUTOR DEPARTMENT OF ROMANCE LANGUAGES**
Duties will include language classes and marking of assignments from internal and external students.
Applicants should have an honours degree with a substantial Italian component or an Italian latica. Preference will be given to native Italian speakers.
31 October, 1977.

**LECTURER PSYCHOLOGY**
The Department teaches at undergraduate and postgraduate levels over areas of psychology to internal and external students.
Applicants with suitable qualifications in any area of Psychology considered.
Experience of teaching at the tertiary level an advantage.
14 October, 1977.

**TUTORS DEPARTMENT OF ECONOMIC HISTORY**
1½ Positions:
Successful applicants are expected to participate in teaching courses which emphasise European English American and/or Australian Economic History.
Applicants should also have a good grounding in theoretical aspects of economic history.
Half Tutorship could be taken up by an applicant wishing to undertake or complete a higher degree.
14 October, 1977.

**TUTOR DEPARTMENT OF PREHISTORY AND ARCHAEOLOGY**
(Political Economy)
Preference given to applicants with a general background in World Prehistory, cultural anthropology and a research interest in the prehistory of the Pacific area including Australia.

**OVERSEAS TEACHING POSTS**
LECTURERS IN TECHNCAL SUBJECTS
(NIGERIA)
Heads of Department, Senior Lecturers and Lecturers in the following Departments:
1. Civil Engineering and Building
2. Mechanical and Production Engineering
3. Electrical and Electronics Engineering
4. Environmental Studies (Town Planning, Quantity Surveying, Architecture, Estate Management and Land Surveying)

Mirtala College of Arts, Science and Technology, Mekurdi.
To set up, organise and teach courses in this recently established but rapidly developing institution.
Qualifications: good dagree or relevent prolassional qualification plus teaching experiance.
Salaries:
Head of Department: Naira 8888-9828 p.a.
Senior Lecturer: Naire 7104-7752 p.e.
Lecturer: Naira 5460-6984 p.e.
(£1=Naire 1.15 at present rate of axchanga)
Benefits: 10-15% contract addition and 15% contract gratuity; low rental housing; car loan; 2 year contracts, renawable
77 TO 150-161

LECTURER IN ENGLISH LANGUAGE AND LITERATURE
(JAPAN)
M.A. and ast least 2 years teaching experiance.
Hiroshima University
Salary: Yan 191000-256000 par month. (Rata of axchanga approximetaly Yan 470=£1) and annual bonus.
Benallia: Installation and aducation grants; rent allowance; medical scharne; two year contract.
77 PU 150

Return faraa ere paid. Local contracts era guaranteed by the British Council. Please write briefly stating qualifications and length of appropriate experiance, quoting relayent rolarenca number and title of post, for further dalails end application form to The British Council (Appointmanils), 65 Devies Street, London, W1Y 2AA.

THE BRITISH COUNCIL

**UNIVERSITY OF RHODESIA**
**FACULTY OF EDUCATION**
Planned development within the Faculty of Education gives rise to two of the undoubtedly posts.
Additionally, our research fellowship on contract time is available and a vacancy has arisen in the Institute of Education.

**Chair of Curriculum Studies (New):**
Applications are invited for a Second Chair in the Department of Curriculum Studies. The successful applicant will be called on to take a lead in planning, innovation and research both within the Faculty of Education and in the wider educational community. The appointee will be responsible for coordinating courses in curriculum studies at all higher degree level.

**Lecturer in Educational Technology (New):**
This post presents a unique opportunity for the right person to play an important part in educational development in Rhodesia. Date of appointment to be arranged as soon as possible thereafter.
Applications are invited for this new post in the Faculty of Education. Dual qualified lecturer with Instructional Technology Unit. Must qualified teacher with experience that will enable them to give an active lead in this field. The post will be available from 1 January, 1978 is tenable in the first instance for two years.

**Lecturer, Institute of Education:**
A vacancy will occur for a lecturer/senior lecturer in the Educational mobility with the development of teacher training in Rhodesia and initiating the qualifications and experience of teachers. Applications are invited from people with experience in one or more of the specialisms normally associated with Education, or which might be developed in the Field of African Teacher Education.

**Environmantel Studies Innovator:**
Applications are invited for appointment from 1 January, 1978 Environmental Studies Innovator to develop the work of the Departmental Education Committee recently established to innovate in this new subject in African primary schools. Based in the Science Education Centre of the Faculty of Education, the post is responsible to the Chairman of the Committee and the Rhodesia Fellow will be responsible to the Centre.
Candidates should be able to contribute to the problem solving the overall aims and scope of the subject and provide of appropriate and appropriate and tenable teaching assistance. Evidence of resourceful and imaginative teaching will be expected, experience of participation in curriculum development and in innovations.
The post is tenable for one year, with a possibility of extension to a second year.

**For Lecturers:**
Both permanent, pensionable (mass and short-term and other contracts are offered.

**Permanent Pensionable Terms:**
Family passages and allowance towards transport of effects on appointment. Installation loan of up to half of one year's salary required. Up-country accommodation guarantee to a good extent. Long-term accommodation guarantee for a period of at least three years for persons recruited from outside Rhodesia. Study leave and financial contact visits with local officers. Superannuation and medical aid schemes.

**Short-term contracts:**
Fully passages and allowance towards transport of effects before with accommodation for persons recruited from outside Rhodesia.

**For Research Fellows:**
Family passages and allowance for transport of effects on appointment. Housing Bonuses, Superannuation and medical aid schemes. (Approx 30p Centres.):

**Salary Scales**

| | |
|---|---|
| Lecturer Grade II | C 4,576 x 2243 - C 5,791 x 2[illegible] |
| Lecturer Grade I | C 5,916 x 2326 - C 8,550 |
| Senior Lecturer | C 10,347 x 2307 - C 12,422 x 2320 - C 14,[illegible] |
| Professor | C 14,240 x 2420 - C 15,340 |
| Research Fellow II | C 4,576 x 2243 - C 5,791 |
| Research Fellow I | C 5,916 x 2326 - C 8,550 |
| Sub Dir. Inst | C 6,580 x 2326 - C 8,890 |

Applications giving full personal particulars and details of qualifications, experience and publications and the names and addresses of three referees, should be submitted by 14 October, 1977, to the Secretary, Rhodesia House, Rhodesia House, Strand, London, WC2B 4LP, from whom further particulars may be obtained.

Applications, together with the names of two referees, should be made by the Overseas Appointments Officer, University of Leeds, LS2 9JT, quoting the reference number of the appointment concerned, to reach the Secretary by 23 October, 1977.

**Head of Department**
**Community Studies**
North Brisbane College of Advanced Education is an autonomous multipurpose institution with campuses at Kedron Park and Carseldine in Brisbane's northern suburbs. The College has four academic divisions — Community Studies, Business Studies, Liberal Studies and Teacher Education — and offers courses at undergraduate and postgraduate level in business studies and education, and at undergraduate level in liberal arts, welfare and recreation. The total enrolment in 1978 is expected to be about 1,500 students.
The Department of Community Studies at present consists of six academic staff and has direct responsibility for the Associate Diploma courses in Community Recreation and Community Welfare. Further courses at advanced level in both fields as well as Community Education courses are projected for the mid-1980s.
Applicants should ideally have expertise and experience in both Recreation and Welfare particularly in relation to the overall development of Australian community resources and should possess a higher degree in at least one of these fields. They should also have had administrative experience at all levels in planning and organising courses at a tertiary level, in addition, experience in community development is desirable.
The salary offered is $23,542 per annum.
Application forms and further information may be obtained from The Registrar, North Brisbane College of Advanced Education, P.O. Box 117, Kedron, Qld 4031.
Applications close on 4 November, 1977.

NORTH BRISBANE COLLEGE OF ADVANCED EDUCATION
BRISBANE AUSTRALIA

LEEDS
THE UNIVERSITY
SCHOOL OF ECONOMIC STUDIES
Applications are invited from suitably qualified candidates for the post of LECTURER IN ECONOMIC STUDIES in the above school, tenable from January 1, 1978 on the new £7,353 to £8,886 with initial placement according to age, qualifications and experience.
Application forms and further particulars may be obtained from the Registrar, The University, Leeds LS2 9JT, quoting reference number 51/31 DO, closing date for applications October 7, 1977.

LONDON
UNIVERSITY COLLEGE
DEPARTMENT OF GEOGRAPHY
RESEARCH ASSISTANT(S)
required from January 1978 to work in the fields of population management. Applicants should have experience in environmental management and/or urban planning. The work is financed by the SSRC and the salary is the range £3,338 to £7,764 per annum plus London Allowance.
Further details may be obtained from Mrs. J. Harrison, Dept. of Geography, University College London, Gower St. London WC1E 6BT.
Closing date October 5th 1977.

LEICESTER
THE UNIVERSITY
F. W. DENNETT CHAIR OF GEOLOGY
Applications are invited for the Dennett Chair of Geology, which will become vacant from the October 1978 following the retirement of Professor F. W. Dennett.
Salary: There is no restriction as to the special interests of applicants.
Further particulars from the Registrar to whom applications should be sent by 31 October 1977. Candidates in the United Kingdom should write to Jobsite (Overseas Appointments) Limited, 1 Cambridge Terrace, London NW1 5JQ.

WARWICK
THE UNIVERSITY
LECTURESHIP IN LAW
Applications are invited for a Lecturer in the School of Law, tenable from January 1978. Applicants with expertise in any field of law will be considered. Salary will be £6,605 - £8,885 per annum.
Further particulars and application forms from the Academic Registrar, University of Warwick, Coventry CV4 7AL, quoting reference number 77/78. Closing date for receipt of applications October 31st, 1977.



## Universities continued

**UNIVERSITY OF BRADFORD**
**ADDITIONAL CHAIR IN CIVIL ENGINEERING**
In making this appointment the University hopes to complement the specialist interests of Professor C. E. Brown of Structural Mechanics and concrete engineering. Further particulars from the Registrar, University of Bradford, Bradford, BD7 1DP, West Yorkshire. Closing date for receipt of applications Monday, 31 October, 1977.

UNIVERSITY OF BRADFORD

**UNIVERSITY OF CAPE TOWN**
**POST OF ACADEMIC SECRETARY AND DEPUTY REGISTRAR**
Applications are invited for the above newly established post. This is a senior administrative position requiring experience of a university or similar educational institution. The incumbent will be directly responsible to the Registrar for the proper functioning of the academic section of the central administration of the university. Appointment is to take effect as soon as possible. Salary will be determined in accordance with the qualifications and experience of the successful applicant.
An information memorandum giving full details of the duties involved and general conditions of service should be obtained from the Registrar, Room 1, University of Cape Town, Private Bag, Rondebosch 700, South Africa, to whom applications should be received not later than 30th October, 19.

**UNIVERSITY OF BRADFORD**
**IN CHAIR PEACE STUDIES**
As Chair following Professor Adam Curle's announcement of intiretnes to be effective the particulars from the Registrar. Applications are invited for post 30 September, 1978. Further, University of Bradford, Bradford, West Yorkshire, BD7 1DP. Closing date for receipt of applications—30 November, 1977.

UNIVERSITY OF BRADFORD

**ULBTER: THE NEW UNIVERSITY**
EDUCATION CENTRE
**LECTURER IN EDUCATION**
(Educational Ooveloprnent and Administration)
Applications are invited for a full-time lectureship within the Education Centre, which is available from 1st January, 1978. Candidates should be persons graduates with experience in schools and with special qualifications in personal development and administration, with particular reference to educational development and administration or social organisations, with particular reference to educational development and administration. Qualifications in the advanced study of administration would be an advantage.
Salary: £3,[illegible]-£5,[illegible] per annum (with FSSU/HSS).
Further particulars may be obtained (quoting Ref. 77/107) from The Registrar, The New University of Ulster, Coleraine, Co. Londonderry, Northern Ireland. Closing date for applications, including a detailed curriculum vitae and names and addresses of three referees, should be sent not later than 7th October, 1977.

ASTON IN BIRMINGHAM
THE UNIVERSITY
ADMINISTRATIVE ASSISTANT (Personnel)
Applications are invited for appointment as Administrative Assistant in the Personnel Department's Staffing Department which is responsible for all matters relating to the organisational, professional and personal development of academic and related staff. Applicants should be graduates with some committee work, drafting and negotiating experience and good interpersonal skills and ability to work in part of a team.
Salary: £[illegible] per annum.
Superannuation.
Further particulars from the Staff Officer (Staffing), Aston University, Aston Triangle, Birmingham B4 7ET, to whom applications should be addressed, quoting reference number 77/[illegible], and to be received not later than 7th October, 1977.

LONDON
SCHOOL OF HYGIENE AND TROPICAL MEDICINE
Required for one of Early Appointments in the Department of Tropical Hygiene, Medical Parasitology and Public Health, Medical Entomology, Medical Microbiology, Medical Ecology, Medical Mycology, Medical Helminthology, Medical Protozoology, Medical Virology, Medical Bacteriology, Medical Immunology, Medical Epidemiology, Medical Statistics, Medical Nutrition, Medical Pathology, Medical Pharmacology, Medical Toxicology, Medical Ophthalmology, Medical Dermatology, Medical Psychiatry, Medical Psychology, Medical Sociology, Medical Anthropology, Medical Geography

## Universities continued

### PAPUA NEW GUINEA

UNIVERSITY OF TECHNOLOGY

HEAD OF DEPARTMENT OF BUSINESS STUDIES

PROFESSOR/ASSOCIATE PROFESSOR

Applications are invited for the above-mentioned appointment.

The Department of Business Studies is one of the five departments of the Faculty of Business Administration and works in close association with the Department of Accounting and Finance, Management in Administration four-year courses in the Accounting and Business Studies streams of the Bachelor of Technology degree and the five-year Technical Accountancy course. The Department conducts courses in Economics, Social Psychology, Personnel Management, Industrial Relations, Public Administration, Marketing, Advertising and Quantitative techniques.

The University is seeking an academic with industrial experience who will have demonstrated the intellectual capacity to give strong leadership to the department and able to conduct high quality courses as well as develop postgraduate research and postgraduate courses, relevant to the needs of management.

The salary level will be either that of an associate professor (K17,775 to K18,675) or professor (K19,976 to K21,000) depending on the qualifications and experience of the successful applicant.

Allowances additional to salary are payable as follows: married K2,500 per annum, single K1,250 per annum, in certain circumstances a child allowance of K396 per annum is also payable. An educational allowance and additional fares may be provided for children being sent abroad away from their parents' place of residence. Other benefits include furnished housing (until goods newly supplied if against rental, have taken to place of residence), every second year and equivalent sabbatical leave, Annual leave of six months will accrue after five semesters of service.

Appointment will be on a contract basis for a maximum of six years in the first instance. The University reserves the right to make an appointment or to make an appointment by invitation at any stage.

Applications in duplicate should include particulars of age, nationality, marital status, family if any, qualifications, present and past employers and addresses of three referees from whom confidential reports can be made. Further information will be towards, in all applications. Applications should be addressed to the Council, UNITECH, and should be sent to the Registrar, The Papua New Guinea University of Technology, Lae, Papua New Guinea.

Enquiries may be addressed to Professor Sir Gordon Bennett, Leader of the Commission, Papua New Guinea University of Technology, Lae, Papua New Guinea.

Further information about conditions of academic staff may also be obtained.

### LEICESTER

THE UNIVERSITY

PUBLIC SECTOR TECHNOLOGY RESEARCH GROUPS

Applications are invited for the post of RESEARCH ASSISTANT ASSOCIATE in the above Centre, to work on a project which will examine U.K. public sector employment and public sector wages over the period 1970 onwards. The project is funded by the S.S.R.C. and will be directed by Dr. P. M. Jackson.

The post is one-year appointment, available from 1st October 1977, or as soon as possible thereafter. Salary will be in the range £2,904 to £3,701 depending upon age and qualifications.

Applications, along with the names of two academic referees should be received not later than 30th September and should be sent to Dr. P. M. Jackson, Public Sector Economics Research Centre, University of Leicester, Leicester, LE1 7RH.

### SOUTHAMPTON

THE UNIVERSITY

DEPARTMENT OF ELECTRICAL ENGINEERING

PROJECT LECTURESHIP

Applications are invited for a temporary Lectureship in the Department of Electrical Engineering, this post is sponsored by British General Public Works for an initial 3-year period. Candidates should have an interest in computer-based aspects of power systems, including power cables. The successful applicant will be expected to take a full part in the teaching activities of the Department, as well as pursuing research in this and related fields. High academic qualifications and industrial experience are desirable.

Salary scale: £3,335 by 5 annual increments to £4,695. The initial salary will depend on qualifications and experience.

Further particulars may be obtained from D. A. S. Fogland, the Bursar, Bursary, Southampton SO9 5NH, to whom applications should be sent (from United Kingdom applicants should be sent not later than September 30, 1977. Please quote reference 2844 A.THES.

## Polytechnics

### MANCHESTER

THE POLYTECHNIC

DEPARTMENT OF ENVIRONMENTAL STUDIES

A/279 LECTURER II IN LANDSCAPE ARCHITECTURE

Applicants should be qualified Landscape Architects who have had knowledge in the Environmental Sciences.

The post will also opportunities for teaching, research and course development in this area.

A/277 LECTURER II IN ARCHITECTURE

Applicants should be qualified Architects who are aware of current theoretical and architectural practice and education. A suitable post-experience will be considered.

A/278 LECTURER II IN VISUAL STUDIES

The successful applicant will be responsible for supervising Visual Studies Workshops, and for the development of Visual Studies courses for the educational studies of Architecture, Interior Design and Landscape Architecture.

Salary scale: £3,279 to £5,493 plus £312 per annum supplement.

For further particulars and application forms (returnable by 20th September) please send stamped self-addressed envelope marked with the reference letter to the Secretary, Manchester Polytechnic, Administration Building, Chorlton Street, Manchester M15 4DD.

### MANCHESTER

THE POLYTECHNIC

FACULTY OF ART AND DESIGN

HEAD OF DEPARTMENT OF INDUSTRIAL DESIGN (Grade V)

Applications are invited from persons of vision and initiative in design and educational development and proven qualities of leadership.

An opportunity to lead an innovatory academic development in a department with a strong commitment to the Sandwich course.

Previous applicants will be considered.

Salary scale: £7,795 to £8,371 plus £492 per annum supplement.

For further particulars and application forms (returnable by 31st October, 1977) please send a self-addressed envelope marked "A/301" to the Secretary, Manchester Polytechnic, All Saints Building, Manchester M15 6BH.

### PRESTON

THE POLYTECHNIC

Applications are invited for the following appointments:—

LECTURER II IN ELECTRICAL ENGINEERING

(to teach Power Engineering)

Salary (Lecturer Engineering) Scale £4,104 to £4,998 (including £312 supplement and April 1977 award).

Application forms and further particulars (which may be obtained from the Chief Administrative Officer (Staffing), Lecturer Recruitment, Lancashire Polytechnic, Preston, PR1 2TQ, to whom they should be returned by Friday, October 7, 1977.

## LANCHESTER POLYTECHNIC

Coventry - Rugby

Faculty of Engineering

Department of Production Engineering

**Principal/Senior Lecturer in Computer Aided Manufacture**

The post will be concerned principally with the development of Computer Aided Manufacture and will involve teaching to a variety of courses up to MSc level. It is expected that the successful candidate will be well qualified in the application of computers, preferably in the field of computer aided manufacture, rather than by general experience of production engineering. Nevertheless, the appointee should be prepared to undertake some teaching duties within production engineering but outside the immediate confines of computer aided manufacture.

Salary scale:
Principal Lecturer £5,940-£,642-£7,578.
Senior Lecturer £5,031-£5,955-£6,417.
Plus £492 supplements per annum.

Interested persons who wish to discuss the post informally are invited to contact Mr. R. L. Aston, Department of Production Engineering, telephone Coventry 24166 extension 278.

For application form and further particulars please apply in writing enclosing a foolscap stamped and addressed envelope to the Assistant Secretary (Personnel), Lanchester Polytechnic, Priory Street, Coventry CV1 5FB, returnable by 14th October, 1977.

## LANCHESTER POLYTECHNIC

Coventry - Rugby

FACULTY OF ART AND DESIGN

**Lecturer Grade II–**

**Industrial Design**

Department of Industrial Design

Design Engineer or Industrial Designer with engineering experience required to teach on BA(Hons) course in Industrial Design (Transportation). Candidates should ideally possess an engineering degree and/or have had practical experience in the engineering or transport industries although those with alternative experience could be considered. A general interest in transport would be welcomed from those candidates without particular professional experience.

Salary: £3,279-£5,493 plus £312 supplement plus April, 1977, pay award.

For application form and further particulars please apply in writing enclosing a foolscap stamped and addressed envelope to the Assistant Secretary (Personnel), Lanchester Polytechnic, Priory Street, Coventry CV1 5FB, returnable by 5th October, 1977.

## LANCHESTER POLYTECHNIC

Coventry - Rugby

FACULTY OF SOCIAL SCIENCE

**Lecturer Grade II in Accountancy**

Salary: £3,279-£5,493 plus £312 plus April, 1977, supplements.

For application forms and further particulars please apply in writing enclosing a foolscap stamped and addressed envelope to the Assistant Secretary (Personnel), Lanchester Polytechnic, Priory Street, Coventry CV1 5FB, returnable by 5th October, 1977.

## LANCHESTER POLYTECHNIC

Coventry - Rugby

FACULTY OF APPLIED SCIENCE

**Lecturer Grade II**

in Physical Geography (2 posts)

Salary: £3,279-£5,493 plus £312 supplement plus April, 1977, award.

For application form and further particulars please apply in writing enclosing a foolscap stamped and addressed envelope to the Assistant Secretary (Personnel), Lanchester Polytechnic, Priory Street, Coventry CV1 5FB, returnable by 3rd October, 1977.

KINGSTON POLYTECHNIC
School of Sociology

**LECTURER II/SENIOR LECTURER in SOCIAL WORK**

Required to join a team teaching on a CQSW course for mature students.

Applicants must be qualified in social work, although recently qualified persons will be considered, and have appropriate academic qualifications. A degree in one of the Social Sciences and an interest in Mental Health would be an advantage. To start 1 January, 1978. Salary range £3,066-£7,626 inc. London allowance plus award in accordance with current pay policy.

Further details and application forms (to be returned by 10 October) from Appointments Officer, Kingston Polytechnic, Penrhyn Road, Kingston upon Thames KT1 2EE.

Faculty of Human Sciences
Livingstone House
Department of Sociology

**Lecturer in Medical Sociology (Grade II)**

*(Readvertisement)*

Applicants are invited from good Honours graduates with roles or and/or relevant professional experience for a Lecturer II post in Medical Sociology. A serious interest in the sociological psychological aspects of health care is an essential requirement.

(Ref. S/AO 304A).

Faculty of Science
West Ham Precinct
Department of Paramedical Sciences
Division of Physiology/Pharmacology

Required from January, 1978:

**Lecturer II/Senior Lecturer in Pharmacology**

With special interest in the Central Nervous System, to teach on the following courses: B.Sc. Applied Biology (Sandwich and Part-time), M.Sc. Pharmacology, HNC/D Applied Biology. Candidates should have an appropriate first degree, and either research, teaching or industrial experience. A higher degree is desirable. (Ref. S/AO 304B).

Salary Scales: Lecturer II, £3,279-£5,493 p.a.
Senior Lecturer, £5,031-£6,417
(Plus appropriate Government Supplements of up to a maximum of £492 and applicable London Allowance).

Further details and application form from:
The Senior Staffing Officer (2), North East London Polytechnic, Forest Road, London, E17 4JB.
Telephone: 01-527 2272 (ext. 20).

Closing date: 7th October, 1977.

**NELP** North East London Polytechnic

## LANCHESTER POLYTECHNIC

Coventry - Rugby

FACULTY OF SOCIAL SCIENCE

**Lecturer II in Education Management**

Based at Dunlaw Park, Ellesmere, to work on post-graduate and post-experience diploma and in-service programmes in education management for schools, colleges and local authority staff, with special responsibility for Course Item and Organisation Studies in the Schools sector. The post offers an exciting opportunity for those with management experience in schools to transfer into Education Management Teaching. Higher degree in behavioural sciences required, with relevant experience in education. Informal discussion may be held with Geoffrey Lyons or John Davies at Dunlaw Park (024 861 2141).

Salary Scale: Lecturer II—£3,279-£5,493
(Plus appropriate Government Supplements of up to a maximum of £492)

Further details and application form from: The Senior Staffing Officer (2), North East London Polytechnic, Forest Road, London, E17 4JB. Telephone: 01-527 2272 Extension 20.

Closing date: 3 October, 1977.

**ARMC** Anglian Regional Management Centre
NORTH EAST LONDON POLYTECHNIC · ESSEX COUNTY COUNCIL

LEICESTER POLYTECHNIC
COMPUTER CENTRE
(User Support Group)

**INFORMATION & ADVISORY OFFICER**

£4,230-£4,545 plus pay supplements of up to £820 o.a.
This is a senior post concerned on leading the full range of information services available to users of the Centre, involving documentation, training and advisory functions. Applicants should preferably hold a degree or similar and have appropriate experience.

**APPLICATIONS PROGRAMMER**

£3,629-£3,885 plus pay supplements of between £454-£492 p.a.
This post involves a fairly wide range of applications arising across different functions of the Polytechnic. Previous experience on administration work or similar is be considered.
Further details and application forms available from: Staffing Officer, Leicester Polytechnic, P.O. Box 143, Leicester, LE1 9BH. Tel. Leicester 0533 551551 extn. 2301. Closing date 30 September, 1977.



## Polytechnics continued

## Leicester Polytechnic

require

**Professor of Business Finance**

and Head of the School of Economics and Accounting

The appointee will be expected to develop the teaching, research and consultancy in Business, Economics and Accounting studies and also a specialism in an applied field related to this work.

SALARY £8520-£9093 (inclusive).

Further particulars and application form from Staffing Officer, Leicester Polytechnic, P.O. Box 143, Leicester, LE1 9BH. Tel. Leics. 50181 extn. 2301. Closing date 14.10.77.

### BRISTOL

THE POLYTECHNIC

DEPARTMENT OF CONSTRUCTION AND ENVIRONMENTAL HEALTH

ASSOCIATE LECTURER or CHARGE HAND IN BUILDING (HALF-TIME) IN BUILDING TECHNOLOGY

Applications invited for the above post, suitable candidates will be expected to teach building craft subjects and to develop a number of staff in specialist areas.

A candidate should be CGBA-DMAIL and a member of an appropriate professional body with experience of craft work in the building industry or its related professions.

Previous teaching experience would be advantageous but is not essential. Preference will be given to candidates who can contribute to the development of courses in professional and Higher Technical Education in the Building Trades. There will also be a limited commitment to evening and day release courses.

The salary will be in accordance with the Scale of Salaries for Craft Instructors in Technical Colleges (Scale 1) plus London Weighting.

Further details and application form (to be returned by 7 October) from Staff Services Department (Ref. S/AO 2), The Polytechnic, Frenchay Campus, Coldharbour Lane, Bristol BS16 1QY. Please quote Reference Number L/T.

Closing date: 7th October, 1977.

### SHEFFIELD CITY POLYTECHNIC

DEPARTMENT OF URBAN & REGIONAL STUDIES

LECTURER II SENIOR LECTURER IN URBAN AND REGIONAL STUDIES AND URBAN ESTATE MANAGEMENT

Salary Scale: Senior Lecturer £5,031-£5,955-£6,417. Lecturer II, £3,279-£5,493.

Applications are invited from CHARTERED SURVEYORS to teach Valuations (including Rating), Urban Land Management as degree and post graduate levels. Research interest is most desirable.

The successful candidate will have professional experience and be a member of the Royal Institution of Chartered Surveyors and/or Institute of Chartered Surveyors (Rating and Valuation Division) or the Institute of Estate Management and/or Chartered Surveyors (Central Practice Division of the Institution).

Closing date, October 7, 1977.

DEPARTMENT OF LIBRARIANSHIP AND ENVIRONMENTAL STUDIES

RESEARCH ASSISTANT (IR)
THE LIBRARIANSHIP

Salary Scale: £2,904-£3,701 including supplements.

Applications are invited for this post. The project will involve a study of local authority "Arts" Libraries, with emphasis on the information work of these libraries. The successful applicant will be expected to undertake a small amount of teaching in the Department, preferably with some post-graduate experience. The post is available for two years.

Closing date, October 7, 1977.

Requests for application forms in writing, please, to the Personnel Department (Ref. 11R/3), Sheffield City Polytechnic, Hallamshire House, 1 Paradise Square, Sheffield S1 2HB.

### HERTFORDSHIRE

THE HATFIELD POLYTECHNIC

SCHOOL OF ENGINEERING

RESEARCH FELLOW

Applications are invited from graduate scientists or technologists to undertake research on the application of hybrid computer systems and the implementation of simulation languages on such systems.

The successful applicant will be expected to register for a higher degree, the investigation should preferably be Ph.D. and this would be the subject of the research. The post will be accommodated within the School of Engineering which offers a wide range of degrees and diplomas. The salary offered will be in accordance with qualifications and experience.

Further particulars from Mr. J. Bloom, Department of Studies in Electrical Engineering, Hatfield Polytechnic, Hatfield, Herts. Telephone Hatfield 68100, ext. 2349.

Closing date: 30th September.

### SUNDERLAND

THE POLYTECHNIC

FACULTY OF ENGINEERING

DEPARTMENT OF MECHANICAL ELECTRONIC AND CONTROL ENGINEERING

HIGHER ASSISTANTSHIP IN FLUID POWER DYNAMICS

Required to investigate interaction between fluid power and mechanical systems and the application of computers to such systems.

Applicants should have an interest in fluid power dynamics and computer control, and the application of mechanical and other systems. Ability experience and/or interest in mechanical dynamics and control would be an advantage. Applicants should have some post-graduate experience. The post is available for two years.

Closing date, October 7, 1977.

Requests for application forms in writing please, to the Personnel Department (Ref. HR/3), Sheffield City Polytechnic, Hallamshire House, 1 Paradise Square, Sheffield S1 2HB.

### BRISTOL

THE POLYTECHNIC

Applications invited for the post of

FACILITY OFFICER
(AGE: 25-35) in £4,695 to £5,694 plus supplements of £312 plus £492 per annum

To act as SECRETARY to the Boards of Studies of the Faculties of Accounting, Business and Management and Humanities, Social Sciences, Languages and Law, and to undertake other related duties including further committee servicing as a senior member of the Academic Registry.

Further details and application forms (to be returned by 7th October, 1977) from Personnel Officer, Bristol Polytechnic, Coldharbour Lane, Bristol BS16 1QY. Please quote Reference Number A/AO-15. In all enquiries and applications. Previous applicants need not reapply, but will be considered.

### LONDON

THE POLYTECHNIC

SCHOOL OF BUSINESS STUDIES

LECTURER II IN ECONOMICS

Applications are invited from suitably qualified candidates to teach Economics to undergraduate students.

Salary Scale: Lecturer II £3,279 to £5,493 (including £312 supplement plus London Weighting and a further £492 if a member of the Polytechnic Superannuation Scheme).

Further details and application forms (to be returned by October 7, 1977) from Staff Services Department (Ref. 11R/3), Sheffield City Polytechnic, Hallamshire House, 1 Paradise Square, Sheffield S1 2HB.

### LONDON

THE POLYTECHNIC

SCHOOL OF BUSINESS STUDIES

LECTURER II IN ECONOMICS

Applications are invited from suitably qualified candidates to teach Economics to undergraduate students.

Salary Scale: Lecturer II £3,279 to £5,493 (including £312 supplement plus London Weighting and a further £492 if a member of the Polytechnic Superannuation Scheme).

Further details and application forms (to be returned by October 7, 1977) from Staff Services Department (Ref. 11R/3), Sheffield City Polytechnic, Hallamshire House, 1 Paradise Square, Sheffield S1 2HB.

### MIDDLESEX

THE POLYTECHNIC

LEISURE STUDIES

£5,000 to £5,675

A responsible post providing administrative and secretarial facilities for two senior staff in the Department, based at Hall Place, Bexley, the Marketing main art and design courses location. The post will be responsible for the day to day running of a very busy office and will have extensive contact with academic and administrative staff and outside organisations and individuals. The post will be expected to take a leading part in the establishment of new committee control systems.

The post must be able to demonstrate considerable administrative ability, preferably that they have a strong educational base and a strong commitment to adult education, problem solving.

Write for full details and an application form, quoting reference 2, to the Administrative Officer, Leisure Studies, Middlesex Polytechnic, Bounds Green Road, London N11 2QZ, to whom completed forms should be returned by October 7, 1977.

## Colleges of Higher Education

**the College of Ripon & York St John**

COLLEGE OF RIPON AND YORK ST. JOHN

**LIBRARIAN**

Applications are invited from appropriately qualified and experienced candidates for the appointment of Librarian in the Church of England Voluntary College of Higher Education (1,600 men and women). The appointment, which becomes vacant on the retirement of the present Librarian, will commence on 1st January, 1978, or as soon after as possible. The College, which was formed in 1975 through the amalgamation of The College, Ripon with St. John's College, York, offers courses leading to the award of the Certificate in Education, the Diploma in Higher Education, the Post-Graduate Certificate in Education, the B.Ed. and B.A./B.Sc. (Collegiate) degrees of the University of Leeds and the Diploma of the British Association of Occupational Therapists.

The Librarian is responsible for all library services on both campuses. The appointment will be at Principal Lecturer Grade (£5,940 plus £312 plus £180 to £3,642 plus £312 plus £100). Further details and application forms may be obtained from the Principal, College of Ripon and York St. John, Lord Mayor's Walk, York YO3 7EX, to whom completed application forms should be returned to arrive not later than Monday, 17th October, 1977.

**Hull College of Higher Education**
Cottingham Road Hull HU6 7RT
Telephone (0482) 41451

THE SCHOOL OF HUMANITIES AND COMMUNITY EDUCATION

This school of 28 full-time academic staff is responsible for the teaching, administration and extension of the recently validated Dip HE course, a variety of Art, Drama and Music Community courses, and the College Foundation course in Music. A major planned development in this school, upon which staff are currently engaged, is a degree in Combined Studies as part of a broader development including degree courses in Social Studies and Education. To assist with current programmes and contribute to the future developments the school wishes to appoint a

LECTURER I (OR SENIOR LECTURER IN ENGLISH LITERATURE

Candidates should have a main interest in literature of the 19th/20th Centuries, show a sociological and/or historical interest bias and have experience in teaching on interdisciplinary courses at a high level.

For further particulars and application forms contact Mrs. O. Liddell at the above address to whom completed forms should be returned within two weeks of the appearance of this advertisement.

This College is formed from an amalgamation of Colleges of Art Commerce Education Nautical Studies and Technology

**Hull College of Higher Education**
Cottingham Road Hull HU6 7RT
Telephone (0482) 41451

FACULTY OF ADMINISTRATIVE AND MANAGEMENT STUDIES

The Faculty has 37 full time academic staff and over 700 full time equivalent students. It currently provides a wide range of full time and part time business, professional and management courses including BA(Hons) Business Studies, HCIA, HND Business Studies, etc., and contributes vitally to the College's role in relation to development of CNAA degree and other advanced courses.

SL in ACCOUNTANCY

SL or LII in ECONOMICS

SL or LII in INDUSTRIAL SOCIOLOGY

SL or LI in PERSONNEL MANAGEMENT

To assist with the development work and teach on existing courses staff are sought for the following posts:

For further particulars and application forms write to Mrs D Liddell at the above address to whom completed forms should be returned within 14 days of the appearance of this advertisement.

This College is formed from an amalgamation of Colleges of Art Commerce Education and Nautical Studies and Technology

## Fellowships and Studentships

**University College Galway**

**Fellowship in Pharmacology**

Applications are invited for the above Fellowship from those with a Ph.D. or equivalent in Pharmacology. The tenure of the Fellowship will be 12 months commencing October, 1977, at an annual stipend of £3,600. The successful applicant will be expected to assist in the teaching of Pharmacology to medical students and to undertake research within the Department. Preference will be given to candidates with an interest in Neuropharmacology. Applications including three copies of curriculum vitae and the names of three referees should be lodged not later than 3rd October, 1977, with the Registrar. Further information further details may be obtained.

### LONDON

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

BIRT FELLOWSHIPS FOR SCIENTIFIC RESEARCH

Applications are invited for fellowships tenable at Imperial College from September 1978 for a maximum of two years. The fellowships are intended for young scientists or engineers considered likely to become research workers of above average ability. Fellows will be under the supervision of a Professor and will undertake research approved by the trustees. Fellows will be under 28 at the date of acceptance. They should be a degree taken by 3rd January in any university or equivalent in the United Kingdom or any Commonwealth country or the Republic of Ireland. Fellowships are awarded by the trustees, in accordance with a deed dated 5 September 1913, part of the British Empire or which is for the time being part of the British Commonwealth.

Further details and an application form are obtainable from the Registrar, Imperial College of Science and Technology, London SW7 2AZ, to whom applications should be returned by 1 January, 1978.

### NEWCASTLE UPON TYNE

THE UNIVERSITY

SCHOOLS FELLOWSHIP

Applications for the Schools Fellowship for the periods from 1978-79 are invited from active experienced teachers of the teaching profession whose ability and maturity is likely to qualify in accordance with the Schools Fellowship terms. This opportunity is offered annually to one or two holders of tenure in the university's academic staff.

Further particulars and application forms may be obtained from the Registrar of the University, 6 Kensington Terrace, Newcastle upon Tyne NE1 7RU with whom completed applications should be lodged not later than October 31, 1977.

### WARWICK

THE UNIVERSITY

POSTHUMOUS RESEARCH BIOLOGICAL SCIENCES

Applications are invited for a Postdoctoral Research Fellowship in the Virus Research Unit, to work on a project led by Professor D. E. Burke on the purification of human immunoglobulin and the isolation of the genomic DNA sequences. Laboratory experience in molecular and hybridoma techniques will be required. The appointment is for three years.

Initial salary will be up to £4,000 per annum, on the Scale £3,279 - £3,895 (£312 supplement).

Further details and application forms from the Academic Registrar, University of Warwick, Coventry CV4 7AL, quoting reference No. 6/2/177, to whom applications should be sent as soon as possible.

## Adult Education

### ADULT COMMUNITY STUDIES

HEAD OF DEPARTMENT of SOCIAL AND COMMUNITY STUDIES required. Position (equivalent to Senior Lecturer) in social sciences and leading courses in community, many fields, also supervising local urban programme Workers. Minimal teaching, more planning, contacts and innovations.

Salary on Lecturer II scale (£3,279-£5,493) with supplements by qualification and experience.

Full details from Principal, Hackney College, 21 Westminster Bridge Road, London, S.E.1. Telephone 01-928 8561.

## Colleges and Institutes of Technology

### LOTHIAN REGIONAL COUNCIL

NAPIER COLLEGE OF COMMERCE AND TECHNOLOGY

LECTURER II IN COMPUTER STUDIES

Salary on Scale £3,690 to £4,995 (plus £312 to £3,895 plus £312 supplement). The post will be concerned principally with computer applications of the teaching programme whose ability is likely to qualify in accordance with the Schools Fellowship terms. This opportunity is offered annually to one or two holders of tenure in the university's academic staff.

Further particulars and application forms may be obtained from the Registrar of the University, 6 Kensington Terrace, Newcastle upon Tyne NE1 7RU with whom completed applications should be lodged not later than October 31, 1977.

**COUNTY OF AVON**

Applications are invited for appointment as soon as possible to the following posts:

**1. Lecturer, Grade II**

to teach Fashion Design to students taking B.Ed degree courses in Dress and Textiles. Applicants should be specially qualified Fashion/Textile designers.

**2. Lecturer, Grade II**

in the Department of Home Economics and B.Ed. Dress and Textiles. Industrial experience would be an advantage.

Salary scale at present £3,279 to £5,493 per annum (plus supplement of £492 per annum). Further particulars from Principal, Bath College of Higher Education, Sion Hill Place, Bath, BA1 5SJ.

## Colleges and Institutes of Technology continued

**DUNDEE COLLEGE OF TECHNOLOGY**

### SENIOR LECTURESHIP IN QUANTITY SURVEYING

Applications are invited from persons with substantial teaching and professional experience. The person appointed will be required to be responsible, in the capacity of Course Leader, for the operation and development of a Degree course in Quantity Surveying recently validated by CNAA. Applicants must have a thorough knowledge of the nature of undergraduate education, possess appropriate academic qualifications, preferably at post-graduate level; and hold corporate membership of a relevant professional institution.

Salary (at present under review) on the scale £8,312-£7,047 (bar) —£8,028, with initial placing dependent upon prior experience. Financial assistance towards the cost of removal expenses may be payable.

Further particulars and application form obtainable from the Administrative Assistant (Establishment), Dundee College of Technology, Bell Street, Dundee, DD1 1HG, to whom completed application forms should be returned by 3 October, 1977.

## Colleges of Education

### STRANMILLIS COLLEGE BELFAST

Stranmillis College is a College of Education, of about 1,000 students, who are preparing to teach in nursery, primary and secondary schools through the Certificate (3 years), B.Ed. (3 and 4 years), and Post-Graduate (1 year) courses. The College is non-denominational: there is no religious test.

The College is pleasantly situated in an attractive wooded estate of some 45 acres, in a quiet residential neighbourhood on the southern outskirts of the City of Belfast. New building projects to the value of £2½ million have been completed in the last few years.

### LECTURER OR SENIOR LECTURER IN EDUCATION

Applications are invited from good honours graduates with successful teaching experience for appointment from January 1st, 1978, or as soon as possible. It will be an advantage to be able to offer specialist contribution in one or more of Comparative Education, Philosophy of Education, Psychology of Education.

Salary Scales: Lecturer/Senior Lecturer, £3,279 to £8,417 p.a. plus £312 p.a., plus a further increase under the Pay Code from April 1st, 1977.

Assistance with removal expenses from outside Northern Ireland.

Further information about the College and the appointment, and a form of application, may be obtained from: The Secretary, Stranmillis College, Belfast BT9 5DY.

Applications should be received by the Secretary not later than September 28th, 1977.

## General Vacancies

**ilea** INNER LONDON EDUCATION AUTHORITY

### Inspector of Further and Higher Education

(DISTRICT RANK)

### for Fashion and Creative Crafts

required to inspect and develop this work in Adult Education Institutes and in Colleges of Further and Higher Education.

Applicants should have a recognised design qualification and relevant teaching experience.

Salary range: £8,888-£9,734 (inclusive of London Weighting) with possible progress to £10,754.

*Details and application forms from the Education Officer (EO/Estab 2A/t) Addington Street Annexe, The County Hall, London SE1 7PB. Please enclose a stamped addressed foolscap envelope.*
*Forms to be returned by 7 October 1977.*

*Britannia Royal Naval College, Dartmouth*

### DIRECTOR OF STUDIES

**£10,000**

The Director is responsible for directing the work of some 30 Lecturers in the Departments of Science, Engineering Science, Mathematics, History (Strategic Studies and Economics) and Languages. He has overall responsibility for the academic work of up to 500 young officers in residence at Dartmouth, and for the selection of officers for university degree courses.

Candidates (men and women) should preferably be graduates in the 45–55 age range and be broadly based as educationalists with considerable experience at secondary or tertiary level. They should have good contacts with schools and universities and must have intellectual and personal qualities which will command the respect of students and staff at BRNC and of Senior Service Officers. Experience of, or affinity for, the Navy would be an asset.

Staff play a full and active part in all College activities.

The post is permanent and pensionable and will be available in September 1978, when the present incumbent retires. A residence will be available at an economic rent.

For further details and an application form (to be returned by 6th October 1977) write to Civil Service Commission, Alencon Link, Basingstoke, Hants RG21 1JB, or telephone Basingstoke (0256) 68551 (answering service operates outside office hours). *Please quote ref G/0962/3*

### HM Inspector of Schools

#### Higher and Further Education

Applications are invited from men and women, preferably aged between 35 and 45, for appointment as HM Inspectors to work mainly in the field of higher and further education, including universities. All HMIs undertake general duties as well as specialist work. Candidates should therefore have an interest in higher and further education generally and not only in the specialists areas listed below.

**AGRICULTURE**
The agricultural specialist will be concerned with maintained and direct grant institutions which provide courses of further and higher education in agricultural subjects including commercial and amenity horticulture, forestry and the rural environment. Applicants should have relevant qualifications and experience.

**BUSINESS STUDIES**
Applicants should have good academic qualifications in economics and substantial experience of teaching economics at an advanced level in further or higher education. A period of employment outside the teaching profession would be an advantage.

**GENERAL EDUCATION**
Applicants should have sound experience in the general and vocational education of young people over 16. Has particularly qualifications may be in the humanities, the social or physical sciences, or in technology. Experience of curriculum development and of general/liberal studies would be an advantage.

**HOME ECONOMICS AND ALLIED SUBJECTS**
Applicants should have a degree or diploma in home economics or a related area together with experience of teaching in further or higher education. Relevant industrial experience would be an advantage as the work will involve all aspects of home economics of craft, technician and professional level.

**SOCIAL SCIENCES**
Applicants should have a degree in sociology or the social sciences, or qualifications and experience in social work, and have relevant teaching experience in further or higher education. An interest in the social education of young people would be an advantage.

Starting salary will fall in the range £6,022 to £9,415 (higher in exceptional cases) for appointments as specialists. Higher points are normally filled by promotion. Application forms (to be returned by 14 October) and further information may be obtained from Mrs D. C. Taylor, Department of Education and Science, Room 10/7, Elizabeth House, 38 York Road, London SE1 7PH, telephone number 01-928 9222 extension 2237. Please quote G/776.
DEPARTMENT OF EDUCATION AND SCIENCE.

**STRATHCLYDE** REGIONAL COUNCIL

DEPARTMENT OF EDUCATION
FURTHER EDUCATION

Applications are invited for the undermoted post at Glasgow College of Technology, Cowcaddens Road, Glasgow G4 0BA.

### Civil Engineering Lecturer 'A'

Honours degree in Engineering and experience in one or more of the following: Soil Mechanics, Construction, Structural esign, Offshore Engineering. An interest in research in one of the above topics would be advantageous.

Teacher Training would be an advantage but training will be given on an in service basis if necessary.

Salary Scale: Lecturer 'A' £3,216 (£478)—£4,110 (£511*)—£6,402 (£514*).

*Figures in brackets are Charge Land Phase II supplements which should be added to the salaries shown. Placing on salary scales will be given for relevant experience.

*Forms of application and further particulars can be obtained from the Principal of the College, to whom completed forms should be returned not later than Friday, 30th September, 1977.*

Edward Millar, Director of Education

### COUNCIL FOR NATIONAL ACADEMIC AWARDS

### Appointment of REGISTRAR

Applications are invited for the post of
**Registrar for Quinquennial Reviews.**

In addition to validating individual courses, the Council also undertakes review of institutions offering courses leading to its awards, on complete entities, either at the stage of approving a course for the first time or on a quinquennial basis. The person appointed to this post will have responsibility for the organisation and administration of these reviews.

Candidates for this post should be well qualified academically and should have had appropriate teaching and/or academic administrative experience.

The salary on appointment will be within the scale £8,333-£8,864 (including London Weighting).

Further particulars of the post may be obtained from:
The Secretary (O.R.),
Council for National Academic Awards,
344/354 Grays Inn Road, London WC1X 8BP,
to whom applications should be submitted by 7 October, 1977.

### CALOUSTE GULBENKIAN FOUNDATION

UNITED KINGDOM & COMMONWEALTH BRANCH

### CO-ORDINATOR

FOR COMMUNITY WORK & INNER CITY SELF-HELP PROJECTS

Applicants should possess a good degree, professional qualifications in social or community work or a comparable field, and administrative experience including community work, policy formulation, budgetary control and communication skills. Starting salary within £5,900-£6,000 according to experience. Appointment for three years in first instance. Applications not later than 10th October. For further particulars, etc., write to Peter Benson, Esq., Director, Calouste Gulbenkian Foundation, U.K. & Commonwealth Branch, 98 Portland Place, London W1N 4ET.

### BRITISH FILM INSTITUTE

### HEAD OF EDUCATIONAL ADVISORY SERVICE

The Educational Advisory Service is the Institute's principal point of contact with organised education at all levels. Its activities include advising teachers and training to control and arrange curriculum teaching projects, producing study materials and publications, and providing a lecture service.

The Head of Department is responsible for managing and developing those activities and is a member of the Institute's Executive. It is hoped that a research assistant will be added to the work of the department, and the Head of Department will have overall responsibility for establishing research arrangements and orientations. Candidates should have good educational experience, well informed knowledge of current debates in film, television and other media in general, and be capable organisers with expertise of general education.

Starting salary £7,670, on a scale rising to £8,788 (including supplements). Application forms and further information from Personnel Department, 81 Dean Street, London W1V 6AA. Tel.: 01-437 4355. Closing date 7th October, 1977. Interviews will be held towards the week of the 17th October.

### SCHOOLS LIAISON OFFICER

As extra member of staff is needed to contribute to a small team engaged in interesting and varied activities concerned with fostering school/industry links. The successful candidate will be primarily concerned with a new scheme which allows teachers to gain industrial experience, and this will involve considerable contact with schools, industry, local authorities and the general public.

The successful applicant will combine a degree with good administrative skills, will be able to devise and control activities, and will be able to communicate effectively at senior level in industry and in education. A few years experience, preferably in industry, is essential, and candidates will be expected to operate with minimum supervision. Some travel throughout the UK is involved and an ability to drive is therefore essential.

The salary will depend on experience and qualifications and other benefits include luncheon vouchers and a pension scheme.

Please reply, with full details, to Mr F. A. Jones (SLS), The Institution of Mechanical Engineers, PO Box 23, Northgate Avenue, Bury St Edmunds, Suffolk.



## General Vacancies continued

**Citizens Advice Bureau**

NATIONAL ASSOCIATION OF CITIZENS ADVICE BUREAUX

### ASSISTANT LEARNING RESOURCES OFFICER

To work within a small unit preparing training materials, both for individual study and for training courses.

Editorial and writing skills, experience in the design of algorithms, and an understanding of the way adults learn, are all relevant to the post. Experience in journalism, publishing or adult education would be useful.

Salary 3,324-£4,420, inclusive of London Weighting, but unlikely to be above £3,924 initially. Employment in the first instance will be until March, 1979, but may then be renewable.

Further details and application form from the Administrator, National Council of Social Service, 26 Bedford Square, London WC1B 3HU. 01-636 4066. If you would like to discuss the job, telephone Ruth Valentine, at the above number. Closing date 7 October, 1977.

### PART-TIME TUTORS WANTED

A professional tutorial firm in London requires part time tutors to assist with preparing course manuals and assisting with lecturing for Law Society Part II Commercial Law and other subjects. Please reply giving details of experience to Box 0667, The Times, mounela

**LONDON, E.6 and S.E.18**
THE GEORGE TAYLOR DESIGN SERVICES

[illegible]

**LONDON**
Chaplaincy team in Polytechnic. Rector (Rev. Edith Mercier) for one year and an Assist. Methodist Superintendent in East London.
Rev. G. Joiner, S.E.D., Livingstone House, Stratford, London, E15 2LJ.

**LONDON**
INNER LONDON EDUCATION AUTHORITY

CAREERS OFFICER
Qualified Careers Officer with high level of interest in employment, training and recreational matters in this specialist post to help implement a young people's unit in Lewisham and Greenwich. The person appointed will have the opportunity to transfer to the Inner London Education Authority's Careers Service.
Salary scale £3,912-£4,110 (£198) Minimum of London Weighting and Phase 1 and 11 supplements.
Details and application forms from the Education Officer (EO/Estab 2A/t), County Hall, London SE1 7PB. Please enclose a stamped addressed foolscap envelope.
Forms to be returned by September 30, 1977.

## Appointments Wanted

**LONDON, N.W.3**

[illegible]

**PART-TIME APPOINTMENT WANTED**
[illegible]

## Colleges of Further Education

### HARROW COLLEGE OF TECHNOLOGY AND ART

*Northwick Park, Harrow, HA1 3TP*
*Tel. 01-864 4411*

### FACULTY OF ART AND PHOTOGRAPHY

### *Principal Lecturer in Information Graphics*

Applications are invited from practising designers with proven administrative ability and experience of teaching at degree level.

The successful applicant will become the Course Director for the present three year full-time College Higher Diploma in Information Graphics, and will be required to take a leading part in the planning and development of the proposed BA(Hons) in Information Graphics which is to be offered in association with the Polytechnic of Central London.

Salary: £5,940 to £7,578 (bar at £6,642)
plus £492 supplement
and £402 London Allowance

*Further information and applications forms may be obtained from the Principal's Office (Ext. 34 or 35) to whom completed applications should be returned within 14 days of the appearance of this advertisement.*

## Overseas

The New South Wales Institute of Technology
SYDNEY, AUSTRALIA

The New South Wales Institute of Technology is a corporate institution established to provide a wide range of professional courses for those entering or already employed in industry, government and technological fields.

### Faculty of Business Studies

The Faculty of Business Studies currently offers a Bachelor of Business degree with concentrations in accounting, marketing, operations management and public administration. In addition, in 1977 the Graduate Diploma in Accounting and the Graduate Diploma in Personnel Management/Industrial Relations were introduced and it is anticipated that expansion of graduate courses will proceed in the near future.

Total current enrolment within the Faculty approximates 2,600 students. Administratively the Faculty is organised into four Schools of Accounting, Business and Public Administration, Finance and Economics, and Marketing. Applications are now invited for the positions of Head, School of Finance and Economics and Head, School of Marketing.

The position of Head of School carries with it the responsibility for the academic leadership of the staff of the School and day-to-day operation of the instructional and research work. As Head of School the appointees will be, ex-officio, members of the Academic Board and the Faculty Board and may be called upon, in the future, to assume the duties of the Dean of the Faculty.

**HEAD, SCHOOL OF FINANCE & ECONOMICS**
The School anticipates offering an area of concentration within the Bachelor of Business degree in Applied Economics. Further, a Graduate Diploma in Finance is being planned for introduction in the near future. The School will further be offering Finance and Economic subjects in other Graduate courses that are being offered within the Faculty of Business Studies.

The appointee should possess a doctorate (or equivalent) and should have professional experience at an appropriate level in higher education in the Business Studies field. His experience will have been obtained by lecturing and/or administering in a Faculty of Business Studies at a recognised University or Polytechnic.

It is desirable that the Head of the School will have had substantial business experience. Alternatively the appointee may have served as a consultant to business or to government.

**HEAD, SCHOOL OF MARKETING**
The School offers a field of concentration of Marketing within the Degree of Bachelor of Business and offers Marketing subjects to all students taking this degree. It will further be offering Marketing subjects in other Postgraduate courses that are being developed in the Faculty of Business Studies.

The appointee should possess qualifications in the Post-Graduate level in Business Studies with emphasis in the field of Marketing and should have professional experience at an appropriate level in higher education in the Business Studies field. This experience will have been obtained by lecturing and/or administering in a Faculty of Business Studies at a recognised University or Polytechnic.

It is desirable that the Head of the School will have had business experience, acquired in a responsible position in a company of some significance. Alternatively he may have acted as a consultant to business or to government.

The Faculty of Business Studies presently academic staff to undertake limited professional consulting for industry and commerce. Opportunities for research work are available.

Academic salaries are under review but are currently $A27,924 or approximately £Stg17,475 per annum.

The position of Head of the School carries tenure and provides for superannuation, long service leave and a Housing Loan Scheme. Fares and a contribution towards removal and initial accommodation expenses are provided for overseas appointees. A Study Leave Scheme is also available.

Applications close October 14, 1977. Applicants should arrange for three confidential referees' reports to arrive by the same date. Written applications should include address, phone number, personal particulars, documentary evidence of qualifications, work and teaching experience, affiliations, publications, research work undertaken and the names and addresses of the referees contacted. Applications and referees' reports are to be sent to:—

The Agent-General for New South Wales,
N.S.W. Government Offices,
66 The Strand,
London, WC 2N 5LZ ENGLAND

The European University Institute is looking for an administrator of university level for its academic affairs department. The person wanted should have several years' experience in the area of university administration.

He/she will be responsible for providing the secretarial services for the Academic Council, drafting documents for it and for the High Council of the Institute, organizing the recruitment of research students and producing the annual prospectus, etc.

He/she must also be able to draw up regulations. International experience would be desireble, to facilitate the necessary contacts with the administrations of the various EEC countries.

He/she will work in close collaboration with the other departments, under orders from the Secretary and the Principal.

A thorough knowledge of at least two of the Institute's official languages (French, English, German, Italian, Dutch) is required.

Basic salary: approx. Lit. 1,300,000 after deductions; the exact figure will depend on professional experience and family circumstances.

Those interested should send a detailed curriculum vitae, along with a photo, directly to:

**The Secretary General,**
**European University Institute**
**Badia Fiesolana**
**Via dei Roccettini, 5**
**50016 San Domenico di Fiesole (Firenze)**

Closing date for receipt of applications: *within 30 days of the appearence of this advertisement.*

### TASMANIAN COLLEGE OF ADVANCED EDUCATION

As part of the rationalisation and reorganisation of post-secondary education in Tasmania, the Launceston College of Advanced Education is relocating its major administrative functions at the Newnham Campus in Launceston, a city of 70,000 population set on the banks of the River Tamar. Housing is readily available at moderate prices as is transport to Hobart by frequent air services.

From the city there is easy access to fishing, boating, skiing, etc., and with the surrounding countryside the location offers a variety of life styles.

### DIVISION OF EDUCATION SERVICES

Within the T.C.A.E. two campuses the Division of Education Services includes a variety of activity units including the Resource Materials Centre, A.V. Production, Student Counselling and Housing, Computer Services and the External Studies unit.

### Head, Division of Education Services

Salary: $30,123.00 p.a.
The head of the division will have responsibility for the direction and management of these services over the whole college with delegation of certain responsibilities to a local head at the Mt. Nelson campus. The Head of Division should be a person with a broad understanding of those functions in an academic institution, experience in management in a tertiary institution and the ability to work with a wide range of academic staff.

### Head, Education Services, Mt. Nelson Campus

Salary: within the range of $23,543.00-$25,407.00 p.a.
This person will be responsible to the Head of Division for the operation of the divisional units on the Mt. Nelson campus. It is desirable that the person should have specialised in one of the major areas of responsibility such as Library Services or A.V. Production.
Enquiries about the above two positions should be made to Dr. Smith, acting principal, T.C.A.E., Launceston, Tasmania 7250. Tel. (003) 26 1244.
Written applications, which should include the names and addresses of three referees, close with the Personnel Officer of the T.C.A.E., P.O. Box 1214, Launceston, Tasmania, Australia, on 17th October, 1977. Tel. (003) 26 1244.

### TORRENS COLLEGE OF ADVANCED EDUCATION

Torrens College of Advanced Education is a multi-disciplinary College consisting of five schools, including a School of Teacher Education.

### PRINCIPAL LECTURER IN Technical and Further Education

Responsibilities include teaching, organising research, planning and developing new courses and generally providing academic leadership in teacher education for Further Education lectures.

The successful applicant should have demonstrated outstanding professional performance and should have high qualifications in one or more of the following, with particular reference to post-secondary education—Philosophy, Social Psychology, Education, Educational Administration History. Some work experience in Industry and commerce and/or teaching in Technical and Further Education is essential.

The position is a permanent one after an initial probationary period. For the first three years, the person appointed will be Head of the Department of Technical and Further Education which will include a staff of about eight.

Salary A$23,047.

Applications including name age, address, qualifications and experience should be sent to:

The Academic Secretary,
Torrens College of Advanced Education,
Holbrooks Road,
Underdale, South Australia 5032
to reach him by October 17, 1977.

**MOZAMBIQUE**
EDUARDO MONDLANE UNIVERSITY
MAPUTO, FACULTY OF AGRONOMY

Applications are invited for LECTURESHIPS in plant protection (pathology), agricultural entomology, agronomy (tropical crops), microbiology, (mechanisation), farm machinery, horticulture and fruit growing, plant physiology, agrometeorology (forages and irrigation). Preference will be given to applicants who have completed postgraduate studies and who have experience in university-level teaching and research. Experience in agricultural production is an asset. Contracts are for two years and successful applicants resign (leave) permanent.
Commencing date by agreement.
Further details and application forms from: Mozambique Embassy, Programme Department, 15 Lindsay Street, London WC2A 3JJ.

**FRANCE**
THE ECOLE SUPERIEURE DE COMMERCE ET D'ADMINISTRATION DES ENTREPRISES
4, rd Trudaine 63037, Clermont-Ferrand Cedex, France

Requires for January, 1978, an engineer if available, a LECTURER with the prospect of promotion to HEAD of the LANGUAGES DEPARTMENT. This is an undergraduate school of management and business studies and the department numbers 18 part or full-time staff. Candidates should have at least five years experience of TEFL professionally in a special purposes context, a postgraduate TEFL qualification, good French and if possible some management experience.
Initial two-year contract minimum, starting salary 70,000 francs per year.
Applications before October 3rd.

## Overseas continued

DARLING DOWNS INSTITUTE OF ADVANCED EDUCATION

**Toowoomba - Queensland**
**AUSTRALIA**
**SCHOOL OF ART**

**Department of Performing Arts**

The Department of Performing Arts offers a three-year (full-time) programme leading to the award of Diploma of Arts (Creative). Both the Performing and Visual Arts Departments of the Institute aim to give a basic understanding of all the major art areas. Students devote a major part of their study to general electives from the School of Arts or other Schools in the Institute. The Performing Arts course provides in-depth study in several areas of theatre skills and specialised functions in both the expressive and technical aspects. The Department allows students to concentrate upon either the Theatre Arts or Music. The Theatre Arts course includes Acting, Theatre Design, Stage Management, Technical Theatre, Directing and Childrens Theatre. The Department's central facility is the 220 seats Arts Theatre.

**Staff 1978 (THEATRE)**

Applications are invited from experienced theatre professionals or teachers in the following Performing Arts areas:

**Senior Lecturer/Lecturer: Techniques of Acting**
**Ref. No. 90/63**

This appointment will cover all classes in Acting and Movement from first to third year and applicants should have extensive experience in the professional or semi-professional theatre in addition to the appropriate teaching qualifications. The appointee will also be required to make a substantial contribution to the public performing activities of the Department and will be encouraged to accept invitation to work in the Darling Downs region and other places as opportunities arise.

**Lecturer: Theatre Design**
**Ref. No. 90/64**

This appointment will cover the teaching areas of stage and costume design, props making, model making and programme and poster layout for Technical students from first to third year. The appointee will also be expected to contribute to the public performing activities of the Department and will be encouraged to accept work in the Darling Downs region and other places as opportunities arise. Some experience in television design would be an advantage.

**Instructor: Stage Management Techniques**
**Ref. No. 90/65**

The appointee will assist in the training of all stage management and technical students within the Department will finally be responsible for the technical staging of all departmental productions. The appointee will also accompany departmental touring groups where necessary and will be responsible for supervising students in all areas concerned with stage management.

**Instructor: Voice and Speech in the Theatre/Radio**
**Ref. No. 90/66**

The Department proposes to develop in the area of Media and the subsequent use of Performing Arts students in the areas of Radio and Television and Cinema. The appointee will primarily be responsible for instruction in Voice in the Theatre; however, some experience in Radio or Television would be an advantage.

**SALARIES:**

| | |
|---|---|
| Senior Lecturer I | $21,123-$22,505 per annum |
| Senior Lecturer II | $19,290-$20,665 per annum |
| Lecturer I | $16,089-$18,484 per annum |
| Lecturer II | $14,345-$16,420 per annum |
| Lecturer III | $12,346-$14,162 per annum |
| Instructor Div. I | $11,578-$12,669 per annum |
| Instructor Div. II | $10,269-$11,312 per annum |

Applications, including the names of two professional referees, should be submitted by 28th October, 1977 to:
Official Secretary,
Agent General for Queensland,
392-393 Strand,
LONDON, WC2R 0LZ.

HIGHER SUPP 7th Items

## Announcement

**THE MUSLIM INSTITUTE**
**for Research and Planning**

The MUSLIM INSTITUTE, which is soon to move into its new premises in London, offers the graduate studentships tenable at British universities. Successful candidates will join a research team working on *The Road to Madina* project for the development of new approaches in the study and presentation of the Sacred Times; candidates will be from Islamic/Mid-Eastern/Afro-Persian studies; others with social/physical sciences background and some knowledge or interest in science policy, systems analysis, and studies. Write with cv (four copies) before October 17, 1977, to:—

Dr Kalim Siddiqui
32 Worrington Avenue, Slough, Berkshire

MIDDLESEX — Lady tutor gives French or German conversation classes in London area. Also Spanish and Italian. Phone [illegible]

LONDON, W.1 — Private college requires urgently available TEACHERS to teach Business English to Japanese executives. Full or part time. Apply: Mr Hirano, Kobe Steel (London) Ltd, 1 Carlton Gardens, London SW1. Tel: 930 8411.

## Universities continued

BIRMINGHAM
UNIVERSITY OF ASTON
DEPARTMENT OF SOCIAL ADMINISTRATION
LECTURER

Ref. No. 2284 (Ext. 1561)
[illegible] Department has to do both teaching and research.

Applicants are invited for [illegible] in the Department. Preference will be given to those with some experience of teaching and research in the field of social administration, preferably with special interest in the sociology of welfare, social policy, comparative social administration, or social research methods. Ability to teach social administration to students in other disciplines will be an advantage.

Salary: £3,744 to £6,447 per annum (inclusive of supplementary payments).

Applications (six copies) should be sent to the Staff Officer (Reference No. 2284), The University of Aston in Birmingham, Gosta Green, Birmingham B4 7ET, to whom applications should be forwarded not later than October 21, 1977.

## Polytechnics continued

**NEWCASTLE UPON TYNE POLYTECHNIC**
**Division of Education Studies**
**PRINCIPAL LECTURER IN EDUCATION OF THE MENTALLY HANDICAPPED**

Required from 1st January, 1978, to lead a team of specialist tutors teaching on the pre-service and in-service courses in the Education of the Mentally Handicapped and to make a major contribution to the new CNAA BEd Degree Course and established Certificate of Education as well as to planning the re-structuring of pre-service courses which is still at an early stage. Applicants should be trained graduate teachers with relevant experience.

**Department of Modern Languages**
**TEMPORARY LECTURER IN SPANISH**

Applicants should preferably be native speakers with suitable qualifications or Honours degree level. They should also have a special interest in social sciences. Post tenable for two years commencing 1st January, 1978.

**Department of Electrical Engineering and Physical Electronics**
**TEMPORARY LECTURER**

Candidates should have a degree and qualifications relevant to electrical engineering, preferably digital engineering, computer technology, computer applications or microprocessors. Participation in research and advanced-course activities will be expected. Post tenable for two years from 1st November, 1977.

Gunham FE Principal Lecturer: £8,940-£8,642 (Bar to £7,578 plus £312 and £180 per annum salary supplements.
Gunham FE Lecturer II: £4,278-£5,493 plus £312 and up to £180 per annum salary supplements.
For further particulars and application forms, returnable by Wednesday, 12th October, 1977, please send stamped addressed foolscap envelope to Staffing Officer, Newcastle upon Tyne Polytechnic, Ellison Building, Ellison Place, Newcastle upon Tyne NE1 8ST.

LEICESTER
THE POLYTECHNIC
FACULTY OF ARTS AND SOCIAL SCIENCES
SCHOOL OF INDUSTRIAL HEALTH, SAFETY AND ENVIRONMENTAL TECHNOLOGY
LECTURER

Applications invited from suitably qualified candidates from outside the industrial health and safety field, with a degree in design engineering, or in the physical sciences, or in the life sciences, and with a degree or equivalent in a related discipline in the physical sciences or in the life sciences, and with experience in the field of occupational health and safety. Ability to teach and undertake research in the field of occupational health and safety is essential.

Salary: £3,744 to £6,447 per annum (inclusive of supplementary payments). Superannuation contributions and other fringe benefits according to qualifications and experience. Further details and application forms available from: Staffing Officer, Leicester Polytechnic, P.O. Box 143, Leicester LE1 9BH.

LEICESTER
THE POLYTECHNIC
SCHOOL OF ECONOMICS AND ACCOUNTANCY
Applications are invited for a full-time Senior Lecturer in Economics, Lecturer in Economics, Lecturer in Accounting.

Salary scale: £3,744 to £6,447 per annum (inclusive of supplementary payments).

Applications forms and further details from Staffing Officer, Leicester Polytechnic, P.O. Box 143, Leicester LE1 9BH. Closing date: October 14, 1977.

MANCHESTER
THE POLYTECHNIC
FACULTY OF MANAGEMENT AND BUSINESS
PRINCIPAL LECTURER IN ECONOMICS

Two successors to candidate will take over duties of Principal Lecturer in Economics. Applicants with ability to promote and provide strong academic leadership for the course are invited to make a major contribution to the teaching programme of one or more of the specialisms on the course, to ensure the maintenance of acceptable academic standards and to stimulate and to contribute to the research effort of the department.

Applicants should be well qualified in theoretical Economics and should have relevant experience and research experience and ability to specialise in one of the following areas: Economics of multinational units.

Salary scale: £6,045 to £7,578 (bar to £7,578 plus £312 per annum supplements).

For application form (return date 7th October, 1977) please send stamped addressed envelope marked "Ref 76/19" to Polytechnic, All Saints Building, Oxford Street, Manchester M60 1QD.

## Colleges and Departments of Art

**Duncan of Jordanstone College of Art Dundee**

Head of
**Principal**

Applications are invited by the Board of Governors from suitably qualified candidates for the post of Principal and Head of Art College.

Further particulars may be obtained from the College Secretary, Duncan of Jordanstone College of Art, Perth Road, Dundee DD1 4HT (telephone 0382 [illegible] extension 4).

Closing date for receipt of applications, which should be addressed to the Secretary to the Governors, Duncan of Jordanstone College of Art, Perth Road, Dundee DD1 4HT, is 14 October 1977.

SALFORD
THE UNIVERSITY
DEPARTMENT OF MATHEMATICS
RESEARCH FELLOW

The appointment, sponsored by the Science Research Council, is for two years in the [illegible] to commence on date to be agreed. Duties are concerned with the application of computers to calculations of flow fields, and analysis of units and processes of data using interactive computing facilities with various graphic devices. Applicants should possess or expect to obtain shortly, a first or higher degree in Mathematics or Computer Science.

Salary within the range £[illegible] to £[illegible] p.a. with U.S.S. superannuation.

Further particulars and application forms may be obtained from the Registrar, University of Salford, Salford M5 4WT, to whom completed applications should be forwarded by 14 October 1977, quoting reference MA 152 THES.

## Research

**SHEFFIELD CITY POLYTECHNIC UNION OF STUDENTS**
**RESEARCH OFFICER**

Applications are invited for the post of Research Officer to the Students Union. The post is designed to provide student officers and representatives with research and information support in all areas of Union participation. The post is open to a graduate, of an appropriate discipline, who can deal with the tasks objectively and has the ability to digest, analyse and present materials clearly and concisely.

Salary (negotiable) A.P. 1/2. Local Government Superannuation conditions, may apply.

Applications (six forms) should be sent in writing to the President of the Union of Students, Sheffield City Polytechnic, Pond Street, Sheffield, by Tuesday, 27th September, 1977. Interviews are to be held on the 5th October.

Full information concerning experience and special skills, together with the names and addresses of three referees, should be given.

SSRC
RESEARCH APPLY TO UNIVERSITY GRANTS COMMITTEE
TEMPORARY LECTURER IN ECONOMICS

For one year, commencing as soon as possible.

Salary £[illegible] p.a. on U.G.C. Scale.

Please telephone for application form and an application form will be sent. Completed applications should be returned to the Secretary, Sussex House, Hollingdean Terrace, Brighton, Telephone 0273 [illegible] by 14 October 1977, quoting [illegible].

SALFORD
THE UNIVERSITY
DEPARTMENT OF MODERN LANGUAGES
TEMPORARY LECTURER IN GERMAN

For one year, commencing as soon as possible.

Salary £[illegible] p.a. on U.G.C. Scale.

Please telephone for application form and an application form will be sent. Completed applications should be returned to the Secretary, Sussex House, Hollingdean Terrace, Brighton, Telephone 0273 [illegible] by 14 October 1977, quoting [illegible].

## Courses

CAMBRIDGE
BROOKSIDE COLLEGE

will be [illegible] from 3rd October and November in the [illegible] COURSE [illegible] for successful students.

Apply to the Vice-Principal, Brookside, Cambridge. Telephone Cambridge 50125.

SURREY
THE UNIVERSITY
DEPARTMENT OF PHILOSOPHY
[illegible] PHILOSOPHY [illegible]

The Department offers the above degree [illegible] with specialisation in one of:

The History of Education
Philosophy of Science
Philosophy of Science

The above and PhD, etc. degrees are 12-18 months and two years.

There is no fee to an increase in tuition [illegible]

Further details available from the Department of Philosophy, University of Surrey, Guildford GU2 5XH.

## General Vacancies

GRADUATE

Dynamic engineer to become business director to manage diversified UK and overseas [illegible]. Write or phone director of [illegible] Centre for Applied Management Studies, [illegible] Road, Croydon, Surrey. [illegible]



# When we should censure the censors

It is idle to imagine—as some people do—that censorship could be abolished completely. All culture depends on censorship of one kind and degree; there could be no civilization without the restraints that each individual puts upon himself, and those which society puts upon its members, restraints which are far more extensive and pervasive than the formal interdictions of positive law.

There is, however, a narrower sense of the word "censorship" where talk of abolition becomes more sensible, and I shall write of this as Censorship with a capital C. Some societies set up, in addition to all their various censorial activities, specific institutions of Censorship: the press censor, the theatre censor, the book censor, the cinema censor and other such bodies inscrutinize material intended for public diffusion to make sure that it is acceptable.

Censors of this kind are well entrenched in the modern world, and are today more powerful and more energetic perhaps than they have ever been, except in wartime. They all represent, to a greater or lesser degree, a danger to freedom not because censorship as such is bad, but because so much censorship is already provided by the authority which prevails within society itself.

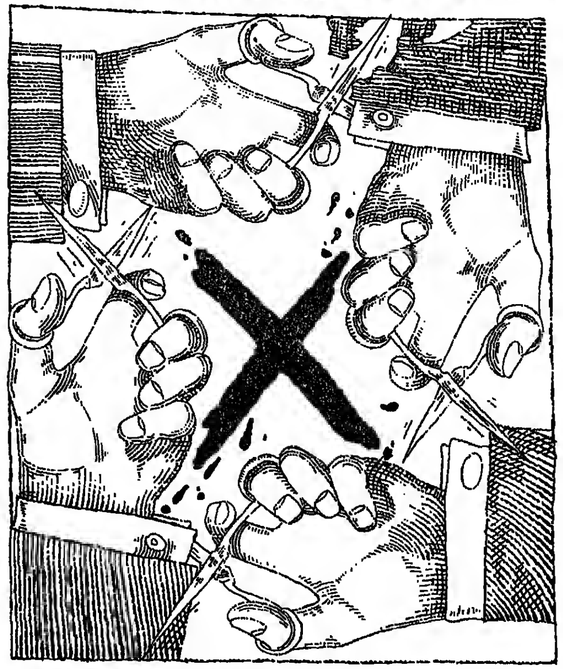
The worst of all censorships is undoubtedly political Censorship, the suppression of information and ideas for political reasons, something practised not only by totalitarian regimes but by some of the most avowedly progressive despotisms. One alarming feature of such censorship is that it extends from the strictly political domain to forbid the expressions of any thoughts—religious, moral, philosophical, aesthetic—which might seem tabooe political implications.

As the communications have become more efficient, and as literacy has become more universal, such political Censorship has grown more active. And yet there is nothing new about it: it is as old as government itself. Nor is there anything novel about the arguments that are put forward in defence of it. It is justified on the grounds that the people must be protected from heresies and falsehood.

In the modern world, ideology has largely taken the place of religion; but ideology has not inherited the mantle of tolerance that Christianity wore in the nineteenth century; it has revived instead the spirit of fanaticism which possessed Christianity in the sixteenth and seventeenth centuries; we have gone back to an age of intolerance. Our ideologies are confident both that they possess a unique truth, and that it is their duty to thwart the *delusion of error*. With such an assurance of rightness, one cannot easily argue.

But at least we can define some of the more shallow defences of Censorship. It is sometimes said, for example, that because censorship of one kind or another is ubiquitous there is nothing to choose between one system of censorship and another. "In the USSR they censor Solzhenitsyn, in the United States they censor Chomsky." (Dr Neurel observatory, March 29, 1975).

What truth is there in this? The story behind this particular charge is that an American publishing house, which had commissioned a book from Chomsky, was bought up by another publisher, who rejected the manuscript (which some found neither humour); so the episode has really nothing at all to do with the Soviet method, which forestalls the publication of any writer of whom the regime disapproves. In this sense of systematic Censorship, America has none.



### *Necessary restrictions*

Yet it is of course true that America has its which set limits to the freedom of expression, and that Great Britain has laws which set even stricter limits. It is a well-founded belief of all liberal societies that restrictions must be placed on certain sorts of publications, notably seditious, blasphemy, obscenity, libel, and, we must nowadays add, invasions of privacy.

"Sedition" may be stretched, and as often as not is stretched, to mean anything that a government feels injurious to its interests; but the word has a hard centre of meaning which concerns the preservation of national security, something which may well depend on certain information being kept secret. Free societies are not naturally good at keeping secrets; the Americans have a secret service, but its activities are repeatedly being disclosed; the British are oil too easily betrayed by people like Kim Philby; and yet intelligence often provokes war, we can hardly wish that it should cease altogether.

Hence, censorship for security reasons, whatever the political expression is, can be justified. A necessary precaution in this area is that the executive government should be made answerable in an independent judiciary for controversial decisions. When, as in the case of the executive's decision, the public must be satisfied. It is irrational to expect that a verdict "honestly arrived at" in a secret way, where secrecy is a defining characteristic.

Blasphemy, the subject of a recent case in London, appears to some people to be too antiquated an offence to be taken seriously in 1977, but we should perhaps reflect that only a society with no values at all—only a society with no sense of the sacred—could fail to be sensitive to blasphemy; an unshackled society would be unbearably barbarous.

The real protest that one must make about the Gay News case is not that James Kirkup's poem was found blasphemous by the jury, but that the penalty imposed by the judge was out of all proportion to the crime: a suitable fine would surely have been the appropriate punishment for what was at worse a lapse of taste.

Obscenity is an even more explosive subject, especially in Great Britain, where, for some reason, it generates more passion than it does elsewhere. In this field, as in others, violent emotions yield injustice. For example, a few months ago a man who showed blue films behind closed doors at a private club in Islington was sent to prison for three years, while no action seems to be taken against the pornographic magazine trade, which circulates the vulgar materials in almost every newspaper shop and news stand in the kingdom.

One difficulty is that the law courts have vitiated any sensible policy by stipulating definitions of "obscenity" which are far removed from ordinary usage. "Corruption", which the Bench goes on and on about, is nothing to do with the problem. What the British public is concerned about in its calmer moments, and is fully entitled to be concerned about, is the preservation of decency and the curtailment of indecency. We may hope that the Royal Commission recently set up under Professor Bernard Williams—and therefore being a philosopher and not a lawyer for its chairman—will come out with some proposals which answer this demand.

It ought not to be difficult to devise legislation on the lines of that in force in France and Western Germany. Erotic literature might, for example, be used like gin, and sold only in licensed shops, which would be forbidden any garish form of advertising; blue films could be shown only in a limited number of special cinemas, with their publicity similarly curbed.

It would be important to avoid the follies of the Wolfenden Report legislation, which swept prostitutes "under the carpet" in England, without any space under the carpet being provided for them; for that only increased the activity of the criminal underworld, with gangsterdom and police corruption involved with prostitution. What is then involved with the direct control of both prostitution and pornography, so that neither decency nor public order is disturbed.

There is everything to be said for a *maison close*, or an "open centre" where the girls are licensed, medically-examined and strictly self-employed. History has proved the truth of St. Augustine's remark that brothels are as necessary to a city as sewers. Nowadays pictorial pornography serves as a kind of *harded imaginaire*, deserving the same toleration as the real thing, but needing no less control in the interests of propriety.

We must never count on the triumph of virtue. Nor ought we to expect too many supplementary benefits from freedom. When the theatre censor was abolished in England a few years ago, many people imagined that a succession of suppressed dramatic masterpieces might at last be admitted to the London stage. But what have we seen? *Oh Calcutta*, *Pajamas Tops*, *Let My People Come*.

One is tempted to think that things were better in the days of the Lord Chamberlain, for then one could at least see in theatre clubs such plays as *Hide Clos*, *Beckett*, and *The Children's Hour*. But if the English stage has so far made poor use of its liberty, it is still a great thing to have that liberty, to have rid ourselves of one anachronistic and unnecessary censor.

It is less easy to speak about the abolition of cinema and television censorship, for here there is no single censor, but several censorial institutions. Again one is troubled by the extraordinary potency of the image, as opposed to the word, in shaping people's conduct, a potency which, coupled with the numerical magnitude of the audience, confers a terrifying power on the men who project the images. Surely the people who control the screen must themselves be controlled? And this is not a question of Censorship in the atomic sense of cutting things out, but of control in the positive sense of deciding what goes in.

But if there is a case to be made for theory for the censorship of the screen, it is difficult to defend the kind of censorship which is actually exercised by our British cinema censors (whether in the industry's own Board, or in the municipal councils). For these censors accept films which abnorrive crime—films such as *A Clockwork Orange*, *Straw Dogs* and various Japanese bloody epics—but they sternly exclude such hard-core entertainment as *Deep Throat*, *Barbara Broodrast* and *Lone Jeanne Silver*.

I would not, as I have said, wish hard-core films to be shown on general release; I want no old lady to be shocked. But I would consider it far more the duty of a censor to control films which incite impressionable persons to crimes of violence than films which might raise the temperature of sexual desire (although perhaps the real purpose of hard-core films is not so much to stimulate us to satisfy in fantasy wishes which cannot well be satisfied in actuality, such as, in the case of *Long Jeanne Silver*, the desire for sexual congress with an amputee).

There is a crime of spoken utterances, that of public speech liable to lead to a breach of the peace. Commoosense might think that similar grounds would justify fining the activities of film producers. But British film censors seem to think of themselves as essentially and exclusively fig-leaf committees, with no duty beyond but that of keeping the screen "clean".

I mentioned earlier two other kinds of publications which most of us would wish to have silenced: that which is libellous and that which constitutes an unwarranted intrusion into privacy. This demand arises from our understanding of the rights of the individual, which include a right to the protection of one's good name, and to the enjoyment of a private life. These rights are not usually considered within the province of censorship, since the protection of such rights is usually left to the individual's own efforts and to the operation of the law of tort.

But I would argue that the protection of such rights can no longer be left to the individual and the civil courts, because the civil law in most Western states no longer works as an effective remedy against libel and the invasion of privacy. The intervention of the public authority is needed to impose that would be in effect criminal penalties on publications which injure individuals in these ways. Civil litigation has simply become too expensive to be of use to the average man for the protection of his rights.

### *Trade union action*

I have suggested that political Censorship is the most sinister of all dangers to the threedom of expression. Today political Censorship is not confined to that which emanates from the State: in Great Britain and in France—and even in Denmark—we see emerging a new form of political Censorship which emanates from the trades unions.

The unionization of the workforce has been, in any case, a mixed blessing for the press everywhere. It is undeniable, for instance, that the excessive wage demands of the unionized manual workers of the American newspaper industry made it increasingly uneconomic for any publisher to run a business: so the unions literally killed dozens of newspapers in New York and other cities. The workers were not content to bite the hand that fed them; they cut off the branch on which they all sat. By demanding—and receiving—the lion's share of the proceeds of the industry, the manual workers have left little over to be shared among the journalists.

If the British National Union of Journalists is so cavalier about metaphysical principles of liberty, it is perhaps because journalists have for so long been the cinderellas of the newspaper industry, more often than not underpaid. A closed shop of journalists might, or might not, increase their short-term material conditions; but it would certainly destroy the one solid basis of press freedom, which is the right of the editor to print what he chooses, and to commission whomever he wishes to write for his pages.

This does not mean that an editor as an individual must be sovereign. For I shall surely be reminded that in the Western world an editor has total liberty, because every editor is answerable to his proprietor, and some proprietors are more interfering than others. Mr Michael Foot, when he was editor of the Evening Standard was doubtless subject to continuous directives from Lord Beaverbrook; on dates may explain Mr Foot's present lack of enthusiasm for the freedom of the press as it exists in capitalist society.

However, in the eyes of the ordinary reader, Lord Beaverbrook was always the supreme editor of his papers; his working editors were simply his executives. It is usual for editors to enjoy more independence than Beaverbrook allowed his; and journalists are naturally excited about the division of authority between editor and publisher. There has, for example, been some agitation in Paris recently since M. Hersant, the owner of *Le Figaro*, started to say what should be printed in his own paper—leading his editor and leading editorialists to resign, invoking the "freedom of the press".

But such disputes between publishers and editors have a limited significance for the freedom of the press in general, where the important point is that the editorial board (including publisher and editor) should be subject to no outside pressures or interference, such as may come from the State or the unions.

It is also very important to the freedom of the press that there should be a variety of papers. It is lamentable that there should no longer be in London as there was until a few years ago a daily trade union paper, the *Daily Herald*, and a Sunday cooperative movement paper, *Reynold's News*. The British trade union movement did one great disservice to the freedom of the press by letting these papers die; and it will do a double injury if it persists in its short-sighted policy of imposing a journalists' closed shop on the papers which survive.

**Maurice Cranston**

*The author is professor of politicn science at the London School of Economics.*

# NOTICE BOARD

## Chairs

Mr Alervin King, lecturer in the faculty of economics, Cambridge and director of studies at St John's College, has been appointed to the Estée Fairbairn chair of investment at the University of Birmingham.

Dr R. M. M. Crawford, Reader in Botany, University of St Andrews, and fellow of the Royal Society of Edinburgh has been promoted to a personal chair.

Dr D. E. R. Watt, senior lecturer in medieval history in St Andrews has been promoted to a personal chair.

Professor P. K. Pathmanik has been appointed to the chair of mathematical economics in the University of Birmingham, from next June. Since 1975 he has been professor in the economics department of La Trobe University, Australia.

Professor B. H. Hunby has been appointed professor and head of the Cranfield Institute of Technology's school of production studies. Professor Hundy joined to the institute in 1972 as professor of automobile manufacture.

Professor V. Alan McClelland has been appointed to the chair of educational studies in the University of Hull. He has been professor of education in the National University of Ireland and head of the department of education at University College, Cork, since 1969.

Mr Michael Chesterman, currently senior lecturer in law at the University of Warwick, has been appointed to the chair of law in the University of New South Wales. He will take up his post in January.

## Appointments

### Universities

**Nottingham**

Special professors: S. S. Adams (pharmacology); R. E. Beard (industrial economics); J. K. A. Bleadsdale (horticulture); T. Lewis (applied entomology in the department of physiology and environmental studies). Special lecturers: J. E. G. Barnett (biochemistry); A. B. Wilson (applied biochemistry).

## Forthcoming events

Residential Conference "Ruskin as critic", organized by the Virginia Studies Centre and the department of adult education in conjunction with the Victorian Society will be held at College Hall, University of Leicester, Knighton Road, Leicester LE2 3TR, from September 23-25. Speakers include: Professor Quentin Bell, University of Sussex, Mr. J. Dearden, curator, The Ruskin Galleries, Bembridge School, and Professor Lilian Haddakin, University of Leicester. Further information from Brian Thurston, department of adult education, University of Leicester, Vaughan College, 29 Nicholas Circle, Leicester LE1 5LA, telephone Leicester 57365.

The Society of Electronic and Radio Technicians is arranging a residential symposium on "Computer Learning Systems" at the Training Centre, Ewell, from September 23-25. Further information from the symposium secretary, S.E.R.T., 8-10 Chartle Cross Road, London WC2H 0HD.

* * *

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**Noticeboard is compiled by Patricia Santinelli and Mila Goldie**

## General

The Institution of Electrical Engineers For the year 1977-78: Mr John Ferguson, consultant, has been elected as president of the institution. Professor Frank Benson, head of electronic and Sheffield, has been elected chairman management division, Mr Frank Bourlman, systems technical manager, Central Electricity Generating Board, planning department, has been elected chairman of the control and automation division. Mr Charles May, director of research, the Post Office, has been elected chairman of the electronic division. Mr Donald J. Miller director of engineering, South of Scotland Electricity Board, has been elected chairman of the power division.

## Grants

**Leicester**

Mass Communications.—£69,000 from the World Association for Christian Communication for a study of mass media and social/cultural change in the Third World, under the direction of Professor J. D. Halloran.

**London**

Sociology of Education.—£24,322 from the SSRC for research at the Institute of Education on pupils identities and teacher strategies within mixed ability curricula, under Mr W. B. Davies.

**Open**

Earth sciences.—£69,000 from the Ministry of Overseas Development to carry out research into mineral deposits in the Omono Mountains and examine the geophysical features of the area, in collaboration with the Overseas Division of the Institute of Geological Sciences.

**Southampton**

Mathematics.—£25,597 from the SSRC for analysis of data from complex surveys, under Professor T. M. F. Smith and Dr U. Holt.

**York**

Psychology.—£23,687 from the MRC for a study of recent memory in pigeons using behavioural and physiological analysis using hyperstriatal and paleostriatal lesions.

# Open University programmes September 24 to September 30

## Saturday September 24

BBC 2
7.40 Manmade fibres : design and technology : The Future of Alternative Technology (T262 : prog 12).
8.05 Making sense of society : Where is Wales ? (T100 : prog 8).
8.30 Technology foundation course : Work study at Hoover Ltd (T100 : prog 28).
8.55 Systems modelling : "a Theory Safety in Networks" : World Modelling on Trial " (T351 : prog 8).
9.20 Topics in pure mathematics : "Finite Theory" (M202 : prog 24).
9.45 Introduction to engineering design : Evolution of Design : The Jet Engine (T231 : prog 14).
10.10 An algorithmic approach to computing : Interrupts and multiprogramming (M261 : prog 10).
10.35 Renaissance and Reformation : The Changeling " (A291 : prog 20).
11.00 The nature of chemistry : Part 2 : Conformation in Proteins " (S202 : prog 31).
11.26 Indian and information : Scoing from Sound (T279 : prog 10).
11.50 Biochemistry : Microbiology (S2-1 : prog 1).
12.15 Industrial relations : For the Good of the Union? (T301 : prog 10).
12.40 Problems of philosophy : " Time " (A305 : prog 3).
13.05+ International politics and foreign policy : Super Powers and the Arab/Israeli Dispute (D352 : prog 9).

RADIO 3 (VHF)
6.25 Economics and education policy : Education in Poland (E203 : prog 5).
6.40 Mathematics foundation course : Differential Equations (M100 : prog 21).
7.15 Arts foundation course : Industrialisation and Culture (A100 : prog 23).
7.35 Science foundation course : The Building of the A-Bomb (S100 : prog 23).

RADIO 4 (VHF)
9.30 Open Forum—21.
9.30 History of architecture and design 1890-1939 : The Rotterdam of the Skyscraper (A303 : prog 20).
9.40 The age of revolution : The Wesley Revolution : Early Historical Setting (A324 : prog 2).
10.00+ Mathematics and learning : Hinsdale Park School (T301 : prog 22).
10.20+ Twentieth-century poetry : Ted Hughes : " Crow " (A304 : prog 10).
10.40+ Modern art from 1848 to the present : Style and social implications : The impact of Abstract Expressionism (A361 : prog 12).
11.00+ Education, malaise in Britain : The obsolescence (A361 : prog 12).
11.20+ Office of the Future : the Minister : Part 2 (T262 : prog 12).
11.20+ Science and belief : from Copernicus to Darwin : Physical Science and philosophy of Nature : The romantic period (A873 : prog 2).
11.40+ Society, psychology : Models of identity (T307 : prog 7).
14.00 Renaissance and Reformation : Selfs in Shakespeare's Time (A291 : prog 23).
14.20+ Management in education : The Education Part 2 " Countdown " (E251 : prog 10).
14.40+ The sociological perspective : The Line of Hindsight (T262 : prog 11).
18.00+ Law and society : Non-Violence as Political Action (A307 : prog 11).
18.20+ Curriculum design and development : Aims and Criteria : Philosophical (T262 : prog 22).
18.40+ Urban development : Chicago and Different but Converging ? (DT201 : prog 22).
19.00+ The handicapped person in the community : Disability and Income (W852 : prog 10).
19.20+ Patterns of inequality : Reform from the Grass Roots (D352 : prog 10).
19.40 Language and learning : Good Food Talk (E262 : pm 10).

RADIO 3 (VHF)
(Replacement programmes for North Scotland and Wales)
24.00+ Twentieth-century poetry : Ted Hughes : " Crow " (A306 : prog 10).
00.20+ Modern art from 1848 to the present : style and social implications : The impact of Abstract Expressionism (A361 : prog 12).
00.40+ Science and belief : from Copernicus to Darwin : Physical Science and philosophy of Nature : The romantic period (A873 : prog 10).

## Sunday September 25

BBC 2
7.40 Arts foundation course : Victorian Cast Iron (A100 : prog 24).
8.05 Science foundation course : " The Universe " (S100 : prog 27).
8.30+ Mathematics foundation course : Differential Equations (M100 : prog 22).
8.55+ Mathematics foundation course : Electro-Mechanical (S262 : prog 16).
9.20 Biological bases of behaviour : Neural Modelling (DT351 : prog 10).
9.45 The Age of Revolutions : Gunnler and the Labor Movement (A302 : prog 10).
10.10+ Personality and learning : " Disorders of Learning Problems " (E261 : prog 10).
10.35+ Science and technology : Blasting Stone 330 (DT203 : prog 12).
11.00 Economics and education policy : Unemployment After Education (E203 : prog 8).
11.25 The Earth's physical resources : Ideas for the future (S206 : prog 12).
11.50+ Environmental management : Modelling the City (D203 : prog 10).
12.15+ Precision design and development : A Peh in a Tank (E203 : prog 14).
12.40+ An introduction to psychology : Centres and Thinking (DS261 : prog 12).
13.05+ History of mathematics : " Sinking Sands " Foundations (A363 : prog 11).

RADIO 3 (VHF)
6.05 English urban history 1800-1980 : British Urban Perspectives (A323 : prog 9).
6.20 Decision making in British education system : Partners ? (E221 : prog 10).
6.40 Man made fibres : design and technology : Building the Course (T262 : prog 9).
7.00 Moving sense of society : Approaching the Exam (T101 : prog 11).
7.20 Elements of music : Recognizing Structures (A241 : prog 5).
7.40 Technology foundation course : Production Systems (T100 : prog 29).

RADIO 4 (VHF)
6.10 Political theory and human nature : Retreat? on Incomes Policy (D262 : prog 10).
6.30 The early human couple and the rise of civilisation : The Double Letters (A297 : prog 10).
8.50 International politics and foreign policy : A Review of the Course (D352 : prog 10).
10.10 The digital computer : Stock T.S.I.A. No. 4 (T3221 : prog 10).

RADIO 3 (VHF)
24.00 The age of revolutions : The Wesley Revolution : Early Historical Setting (A324 : prog 2).
00.20 Renaissance and Reformation : Satire in Shakespeare's Time (A291 : prog 24).
00.40 History of architecture and design 1890-1939 : The Rotterdam of the Skyscraper (A303 : prog 20).

## Monday September 26

BBC 1
2.50 Solids, liquids and gases : Phase Changes (S126 : prog 10).
7.05 National income and economic policy : Incomes Policy (D262 : prog 10).
7.20 Social psychology : Models of Identity Community (D352 : prog 10).
7.40 An algorithmic approach to computing : Interrupts and multiprogramming (M261 : prog 10).
7.05+ Society : Interpret and Application (S365 : prog 10).
7.20 Modern art and architecture : Whatever will be (A362 : prog 10).
16.05+ Mathematics and learning : Models (E262 : prog 8).
17.20 Mathematical modelling : Vibration (M261 : prog 10).
17.45 Science and belief : Evolution : The Victorian Evolution (A873 : prog 11).
18.10 Mathematics foundation course : Predicting Oscillations (M100 : prog 28).
18.35+ Technology foundation course : Work Study at Hoover Ltd (T100 : prog 28).

RADIO 3 (VHF)
6.20 Personality and learning : Disorders Analysis (E261 : prog 8).
6.40 The English urban history 1800-1980 : The novel in a suburban station (A323 : prog 10).
8.40 The development of instruments and music : Technology and Society Today (A341 : prog 10).
17.40+ Education and learning : Good Food Talk (E262 : prog 10).
19.05+ Music : Announcements (Music Film).
19.20+ Education and educational policy : Education in Poland (E203 : prog 5).
19.45 Public administration : The Future of Public Administration in the USA (D351 : prog 10).
20.10+ Making sense of society : Approaching the Exam (T101 : prog 11).
(Replacement programmes for North Scotland and Wales)
24.00+ Decision making in British education system : Partners ? (E221 : prog 10).
00.20+ Patterns of inequality : Reformism by Consensus—the Italian Way (D352 : prog 11).
00.40+ Language and learning : Good Food Talk (E262 : prog 12).

## Tuesday September 27

BBC 1
8.40 An introduction to materials : Concrete (T221 : prog 16).
7.05+ Geography : Earthquakes (S8-4 : prog 8).

BBC 2
6.40+ Biological bases of behaviour : Neural Modelling (DT351 : prog 10).
7.05 Urban education : Wo Parents Know Best (E261 : prog 10).
7.30 Languages and learning : Children's Language (E262 : prog 8).
11.25+ Pedagogy : Piaget on the Road of Knowledge (E261 : prog 8).
16.40+ Man-made fibres : design and technology : The Future of Alternative Technology (T262 : prog 11).
17.20 Chemistry : Fuels and organisms : Chlorofil : the lamp of life (S262 : prog 10).
17.45+ Art and environment : Whatever will be (A362 : prog 10).
18.10+ Systems performance : Human factors and systems failures : Earthquake Prediction and Prevention (T254 : prog 10).
18.35+ Science foundation course : The Nucleus (S100 : prog 27).

RADIO 3 (VHF)
6.20 Philosophy (D262 : prog 10).
6.40 History of mathematics : A Review of the Course Series (A363 : prog 11).
6.40 Patterns of inequality : Reformism by Consensus—the Italian Way (D352 : prog 11).
7.15 Mathematics foundation course : Differential Equations (M100 : prog 21).
7.35 Science foundation course : The Building of the A-Bomb (S100 : prog 27).
17.45 Earth science topics and methods : Lunar Geochronology (S371 : prog 10).
18.05 Problems of philosophy : Surfaces in Surveys : Is Scientific Time (A 351 : prog 11).
18.25+ Geometry and art : Organizing Structures (A241 : prog 10).
18.45 Arts foundation course : Industrialisation and Culture (A100 : prog 24).

Replacement programmes for North Scotland and Wales
21.00 Social Sciences: The Cost of Welfare (D351 : prog 10).
00.20 Pre-modelling and design : Ian Analysis (T201 : prog 10).
00.40+ Open Forum—20.

## Wednesday September 28

BBC 1
6.40 Systems relation : Shipbuilding 1 (T351 : prog 14).
7.05 Technology foundation course : Liquefied Hydrocarbons (T100 : prog 14).
7.30 Technology foundation course : Chemistry of Tablet (T100 : prog 10).

BBC 2
6.40+ Heredity : " Molecular Evolution " (S262 : prog 10).
7.05+ The Earth's physical resources : Ideas for the future (S206 : prog 10).
7.30 Chemistry : Chemistry and Technology of Tablet (T100 : prog 10).
16.40 Health development : Health Promotion (T241 : prog 10).
17.05 Technology : Control and Middle Ability, Peels and Control (DT272 : prog 10).
17.30 Decision making in British education system : Partners ? (E221 : prog 10).
17.45+ Mathematics foundation course : Linear Mathematics (M100 : prog 19).
18.10 Mathematics foundation course : Linear Mathematics (M100 : prog 19).
18.35 Arts foundation course : Industrial Cast Iron (A100 : prog 24).

RADIO 3 (VHF)
6.40 People and work : Work and Quality Life : (T101 : prog 10).
17.40 Environmental control and middle ability : Peels and Control (DT272 : prog 10).
18.05 Decision making in Britain : The Decision Making Machine : Part 1 (T263 : prog 11).
18.25 Technology foundation course : Valve Switching and Intermittently (T221 : prog 10).
18.40+ Biochemistry and molecular biology : Microbiology (S2-1 : prog 1).
18.05+ Mathematics foundation course : Differential Equations (M100 : prog 21).

Replacement programmes for North Scotland and Wales
24.00+ The handicapped person in the community : Disability and Income (W852 : prog 10).
00.20+ Patterns of inequality : Reformism by Consensus—the Italian Way (D352 : prog 11).
00.40+ Language and learning : Good Food Talk (E262 : prog 12).

## Thursday September 29

BBC 1
6.40 People and work : White Collar Workers (DT201 : prog 7).
7.05+ Science and society : Sociology (Second Series S20 (DT357 : prog 10).
7.40+ Economics and education policy : Unemployment After Education (E203 : prog 8).

BBC 2
6.40 Decision making in British education system : Babies and Diamonds (E221 : prog 10).
7.05 Mathematics and molecular biology : Biology : Diversity Immunovirology (S262 : prog 8).
7.30 Comparative government and political theory : Comparative Politics (DT221 : prog 8).
4.05 Teachers : Teaching in Britain : The Crossman Inquiry (E261 : prog 10).
17.20+ Mathematics foundation course : Differential Equations (M100 : prog 21).
17.45 The development of instruments and music : Technology and Society Today (A341 : prog 10).
18.10+ Science foundation course : The Nucleus (S100 : prog 27).
18.35+ Working people and society : Where is Work ? (T301 : prog 11).

RADIO 3 (VHF)
6.20 Curriculum design and development : No Blame Without Failure (E203 : prog 12).
6.20 Urban development : Urban and Industrial Decline (T201 : prog 20).
6.40 Decision making in British education system : Partners ? (E221 : prog 10).
17.40+ Decision making in British education system : Partners ? (E221 : prog 10).


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ESSAYS ON
ECONOMIC DEVELOPMENT & CULTURAL CHANGE
IN HONOR OF BERT F HOSELITZ
Edited by Manning Nash

At a time when development studies were assumed to be synonymous with capital, labour, technology and GNP, Bert F. Hoselitz was among the first to recognize the 'non-economic' factors in development, viewing the process as social transformation rather than industrial transplantation. Now a group of the worlds' most eminent scholars have combined to honour this multifaceted economist whose insights have significantly extended the bounderies of the field.

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# BOOKS

## Change in technology

Innovation and Productivity under Nationalisation
by C. Harlow
Allen & Unwin, £10.00
ISBN 004 6100038

Economics Technical Change
by A. Heertje
Weidenfeld & Nicholson, £8.50 and £4.50
ISBN 0 297 77271 6 and 77268 6

These two useful books on technical change are very different, for while Heertje provides an essentially theoretical text in which facts play little part, Harlow has written a very detailed description of the innovation process in the nationalized sector and introduces a theoretical framework very much as a postscript.

Heertje aims to trace the evolution of the analysis of technical change in the literature of economics from Stewart and Smith through to very recent work. The level of treatment is rather uneven, in some chapters the analysis is carried out meticulously while others take the form of surveys and will require a fair amount of previous knowledge.

Much of the analysis of the last fifteen years or so has taken place within the framework provided by production functions. Heertje is good in his treatment of this important area. The use of production functions at both the micro and macro level requires the use of aggregation and in discussing this problem he also notes that the debate has been confined to capital goods and largely ignores the difficulty of aggregating labour. (This is not true of the work of Denison but he only rates two lines, illustrating the theoretical emphasis of the book.) Quite so, which further weakens the foundation of aggregate production functions and attempts to aggregate the stock of human capital.

Heertje reaches the position that micro and macro production functions "fail as a condensed representation of the efficient technical possibilities" but he is then forced, with 100 pages to go, to lamely state that we cannot ignore them as plume switching in economic theory and in empirical work. Having set out to analyse what has been done, Heertje has little option to report this work fairly but his position is a little uneasy.

Harlow has no such problems. He is a facts man and he assembles them well. The great bulk of the book consists of studies of major innovations in five nationalized industries (aircraft innovation and BEA, electricity generation, automation telephone switching techniques, mechanization in coal mining and process innovation in the gas industry). These chapters are very well documented and, concerned as they are with the organization of innovation in the five industries, they give a useful insight into their operation in a more general sense.

One issue that Harlow concentrates on is the extent to which the fact that the industries are nationalized affects the innovative process. The main point here is that, as a result, they represent single buyers to suppliers. This means a tendency for the responsibility for research and development to partially pass from supplier to customer and "since supplying companies would find it highly risky to develop new types of capital equipment unless the dominant customer had expressed a preference for the type, the public corporation would find itself unable to order fully developed equipment of the type it preferred unless it had already declared that preference at an early date."

Further, the supplier has to go along with decisions taken by the customer. Thus the telecommunications industry had to cooperate with the development of the division multiplex system of switching in the 1970s because the Post Office, at that time, would not consider any alternative—a decision that had unfortunate repercussions when replacement systems had to be ordered in the early 1970s. Harlow is careful not to assign blame but to point out that such problems are inevitable in the market structure, rather than the institutional setting.

Now this seems a pretty important issue with public corporations accounting for a substantial proportion of fixed investment in the United Kingdom. So one sees in Heerje's book to see if he sheds the theoretical literature throw on it. Not much—in fact nothing. Perhaps because this has been investigated largely in the literature on conditions favouring successful innovation and on the diffusion of innovations and this is predominantly empirical.

In their different ways these books are both to be recommended although they will appeal to somewhat different audiences. Let us hope, however, that there are some who will read both, for a judicious mixture of theory and facts is surely the best route to a clear understanding of the extremely complex process of technological change.

**Keith Norris**

## Pride and pugnacity

The Economics of European Imperialism
by Alan Hodgart
Edward Arnold, £5.95 and £2.95
ISBN 0 7131 5911 1 and 5912

Imperialism is an enormously complicated, emotionally charged topic, which is of central significance to an understanding of the world: the books which discuss it are plentiful and the number of students who attempt to answer questions on it must be legion. Disagreement about what it is and what constitutes its historical dynamics is profound and, between certain camps, almost certainly irreconcilable.

It is against this background that Alan Hodgart's book has to be considered. He takes the central feature of economic imperialism to be an attempt by states to obtain an efficient resource use by crossing national boundaries and in discussing this his brief is to take the major writers on the economics of imperialism and to provide an exposition of their views. He is not concerned with the practice of European imperialism but with the attitudes towards it. To a great extent the writings he considers are allowed to "speak" for themselves but in drawing together the threads of the various arguments Hodgart also engages in critical comment of his own.

In the course of his short discussion—the text amounts altogether to 81 pages—we encounter a range of thinkers whose work has been directly or indirectly influential in the course of the continuing debate about imperialism. Marx, Hobson, Lenin, Schumpeter and Keynes all feature as figures who have affected our perceptions of the nature of economic development with which the issue of imperialism is "inextricably bound". In terms of scope the work includes a consideration of early nineteenth-century colonization and imperialism, as well as the major debate over the later expansion of that century when Europeans became "lords of human kind". It also incorporates a chapter on the more recent phenomenon of neo-colonialism and ends with a discussion of past, present and future trends, which touches on the concept of socialist imperialism.

The argument is tightly knit and controlled and the synopsis reveals a close understanding of individually important texts. There are, for instance, some particularly perceptive comments on Hobson. Hobson's work is sometimes discussed, particularly by his critics, as if imperialism could be explained in terms of economics. But Hodgart rightly acknowledges that while such pressures might constitute the "taproot" of imperialism Hobson was remarkably prepared to grant an importance to "real and powerful motives" such as "pride, prestige and pugnacity."

Hodgart also points out that even if investment after 1870 did not flow mainly to the newly acquired imperial territories, as Hobson suggested, and capitalists preferred instead to hold up their interests in the more advanced parts of the world (as Lenin correctly noted they did), this does not necessarily mean that Hobson was misguided in claiming that the small investing public, the self-effacing rentier and the stock exchange gambler, did badly out of their speculative investments. We need to know more about this. It also has to be recognized in discussing Hobson's views — and they provide a crucial fulcrum for the later debate—that he never believed that effective demand for consumer goods from the indigenous population of Asia and Africa would solve the under-consumption crises of capitalism. The moral in all this is that we should give our sources the attention and reflection they deserve.

But however much attention we pay to the texts disagreement is certain. The whole debate is influenced by political, psychological and ethical considerations which intrude into economic analysis. Before you read your economics know your economist. But while this complicates analysis it is wholly unhelpful when it takes place within an appropriate context. In that sense we should be aware of the self-imposed limitations of the present study. But, given that, one wishes for more, then a passing reference to the writings of Koebner and Fieldhouse, both of whom have made combative attacks upon the economic interpretations of imperialism exposition. At the same time, one is less surprised that Hodgart's book is one which essentially discusses European opinion on European imperialism. After all, the cultural patterns deriving from our colonial and imperial past are still with us.

**Colin Holmes**


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# BOOKS

## Monetary matters

Inflation, Exchange Rates, and the World Economy
by W. M. Corden,
Clarendon Press: Oxford University Press, £4.50
ISBN 0 19 877096 0

In so far as it is possible to write a textbook in a field as turbulent as international monetary economics in the 1970s, Max Corden has made a most useful contribution. It would be surprising indeed, if Corden's textbook did not become the preferred reading of many students in this field. The clarity of exposition is outstanding and the initially surprising, and subsequently obvious, insights into aspects that others have missed is stimulating.

Four main topics are discussed and each is of theoretical or practical interest. These are: developments in balance of payments theory, inflation and the exchange rate regime, the international consequences of the petro-dollar slop and European monetary integration. Each of the chapters is equipped with an excellent bibliography that is always up-to-date and pleasingly compact for the hard pressed student. A brief discussion of three of these topics should be enough to give the flavour of the book.

Corden does not claim to have all the answers. Indeed, in some cases research is still at a controversial stage. One of the main issues for the 1970s and beyond is the role of the foreign exchange rate regime (fixed, floating, managed) in inflation. Since Corden has written a textbook, the conflicting arguments are set out. The result is that those who want a cut and dried answer will probably be disappointed.

Thus, for the world as a whole floating exchange rates may have a greater or lesser inflationary bias compared with a pegged-rate regime. It all depends upon the monetary policy of the individual central banks. But Corden points out that intervention by the authorities to offset fluctuations in the capital account and the consequent ratchet effects on inflation, is certainly desirable. For individual countries, floating rates allow a country to choose its own inflation rate. Certainly, international comparisons of inflation rates widened after May 1973 when most industrial countries moved over to floating rates.

The technicalities of the effect of the oil price rise are discussed in three separate chapters. Two principal points are, first, the five-fold increase in the price of oil was not necessarily inflationary for the industrial countries. Indeed, the higher price of oil was deflationary because it induced a massive switch of expenditure on to this commodity. The subsequent inflation was the result of the monetary expansion set off by governments trying to maintain the level of aggregate demand and employment. Second, the much feared world economic crisis has not materialized principally because petro-dollars were recycled. Industrial countries were able to finance their current account deficits by capital account inflows from the surplus OPEC countries. Given that OPEC had produced the oil, they had nowhere else to invest their surplus funds but in the New York and London financial markets.

Finally, on a more theoretical issue, Corden emphasizes the importance of the monetarist view of the balance of payments. Balance of payments disequilibria arise when an economy as a whole attempts to adjust the actual money stock to the desired level. Thus a deficit is "equal to the excess of domestic credit-creation over the increased demand for cash balances" (p 47). The excessive DCC lowers interest rates and induces increased private sector expenditure on imports as well as capital outflow. But monetary outflow will automatically cease when the excess credit is worked off. Corden points out that a deficit can persist only if there is continued excessive monetary expansion. Moreover, import quotas (supported by the Cambridge school) will reduce a deficit when they induce an increase in the size of the desired money stock, which they will if they cause higher prices (a likely outcome).

**Paul Hallwood**

## A decade of aid

Aid and Development in Southern Africa
by David Jones
Croom Helm, £11.95
ISBN 0 85664 511 7

To write a book with this title appears to be courting disaster on three separate fronts. The area is one of the most emotive in the world. The whole subject of aid, especially whether enough is given by Britain, or indeed, whether aid can ever be associated with development, has provided and will continue to provide fuel for endless arguments. Furthermore, to write about any African country is to be frequently caught with dated material, but when southern Africa is concerned that risk can be even greater.

Mr Jones is well aware of these problems but the first is more apparent than real. Presumably "Southern Africa" is in the title as a sales booster, for only Botswana, Lesotho and Swaziland are considered, not even the Republic of South Africa entering widely into the book. The author has avoided the problem of rapidly changing events by treating his topic as a historical rendering, reviewing development and aid for the decade to 1974.

The book is constructed in four parts, one given to a general introduction and one to each of the three nations. In terms of the author's approach and achievement it is better viewed as being of tripartite form: the reasons for giving aid and the methods by which this is achieved; the benefits which have accrued to the recipients and what future policy towards them might be; and finally a detailed study of each country regarding their economic situation and the way aid has been used and the effect it has had. That the overall conclusion regarding the aid should be placed before the consideration of each country might appear constructionally odd but the wealth of detail there would have seriously divorced the section on general aims of aid donation from the conclusions as to its benefits.

Jones has achieved two worthwhile goals in this carefully written and researched book. For those interested in the former High Commission Territories there is here a source of information which is difficult to obtain from any one existing work. Even the fact that the material does not go beyond 1974 is no great disadvantage for although southern Africa is politically unstable, the economy of these three territories is not notable for sudden changes or developments. Indeed it may well come as a surprise that the Ministry of Overseas Development "habitually offers up to 25 per cent more aid than it has at its disposal, because of its experience that recipients more often than not fail to spend all the aid they offer".

Of equal importance to the detailed coverage of the three territories is the critique of the aims and methods of British aid. The general verdict is that it has been "virtuous though sometimes frustratingly neutral". Perhaps this is because Britain has no overtly declared aid policy, what is given and to whom depending upon "development potential, need and political and commercial considerations". Unlike Ministers of Overseas Development who are carefully vague about British aid philosophy, the author, having looked at arguments for and against aid in general, makes his views quite clear. Whatever one's standpoint on this it is obvious that Botswana, Lesotho and Swaziland have been treated relatively generously in terms of per capita—£3.00 compared with 10p for India. Indeed the author suggests that Botswana and Swaziland no longer need such preferential treatment.

**Graeme Whittington**


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# BOOKS

## Model answer

**The Labour-Managed Economy**
by Jaroslav Vanek
Cornell University Press, £12.50
ISBN 0 8014 1055 1

Labour-management is a relatively new branch of economics, and Jaroslav Vanek, as one of the pure economists attempting to subject it to rigorous economic analysis, is a leading theorist. In this book he brings together 15 essays, each of which explores and extends the theory underlying a particular problem of the labour-managed economy. It consequently lacks a unified argument, but this scarcely matters in view of his earlier, more complete works.

Professor Vanek believes in labour-management of the Yugoslav type: "In brief, the labour-managed system appears to me to be superior by far, judged on purely economic criteria, to any other economic system in existence." He believes that it is as capable as, if not better than, capitalism in optimizing the use of capital and labour resources, producing a stable economy, preventing inflation and ensuring a fair distribution of incomes and optimal production methods; quite apart from its moral advantages. This is despite his recognition of the existence in Yugoslavia of considerable unemployment and misallocation of capital, severe inflation and unfair income differentials, all of which are reinforced by, if not caused by, the system of labour management as practised there.

Vanek proposes a series of reforms necessary to "liberate the (Yugoslav) working man from himself as a collective capitalist". One of these is that the practice of self-financing should be avoided in labour-managed economies. He proposes "neutral" central bodies that would receive a realistic "rent" from each enterprise for the use of its capital assets, and would act as the sole providers of investment finance at an interest rate that would reflect capital's scarcity and marginal productivity. His approach reveals a fundamental difference of attitude to the relationship between labour and capital. Yugoslavia has developed self-management via Marxism and the labour theory of value; Vanek is concerned with marginal analysis and optimization: Marx barely gets a mention. The Yugoslav system thus insists that workers in each enterprise should decide what percentage of enterprise earnings shall go towards reinvestment: Vanek wants this national centrally determined and collected. His "reforms" would deprive Yugoslav workers of their most dearly held rights.

There is no doubt that he is right. His reforms are necessary if a labour-managed system is to match capitalism in its ability to optimize the use of national productive factors. A system based on the Marxist view of the relationship of capital to labour will never do this. However, the concept of labour-management may lose much of its appeal if divorced from Marxian tradition; one fears that Vanek's model may share the fate of Esperanto: a good idea that inspires no one.

It is impossible to mention all the conditions to which this model is subjected in this work, and to do justice to some of the more mathematical parts would require a better analyst than myself. Worthy of note is the investigation of the potential advantages of labour-management for underdeveloped economies but here, too, competent central authorities are vehicles; indeed, throughout his model they play a larger role than might been posted.

Labour-management needs such people as Vanek to set hard logic against the self-congratulatory rhetoric that so often mars Yugoslav contributions to the subject. However, his model, mathematically neat and impeccably defended, achieves internal consistency by excising from existing systems all the Marxist imperfections which provided the original inspiration to give workers control over capital. As such, it would not be acceptable to Yugoslavs or other East European reformers. However, as education advances throughout the world so must the degree of labour participation in management and the theoretical advances that Vanek has made should soon become increasingly important outside the socialist world.

**John Waller**

## High finance

**The Evolution of the International Monetary System 1945-77**
by Brian Tew
Hutchinson, £6.50 and £3.25
ISBN 0 09 129210 7 and 211 5

**The Failure of World Monetary Reform 1971-74**
by John Will Lomnsan
Nelson, £7.50 and £3.50
ISBN 0 17 711208 5 and 212208 0

The recent history of the international monetary system is examined in these books. In effect, Professor Tew's book is an updating of his *International Monetary Cooperation* which, as the blurb puts it, "was for many years the classic textbook for international monetary economics" and it covers the immediate post-war years, the "Bretton Woods system" and the latest phase, "from pegging to floating".

As readers of his previous book will know, Tew's style requires concentration. He succeeds in summarizing a great deal of material in a fairly small compass, which means that the book is better dipped into than read straight through. International monetary arrangements and negotiations involve issues of economic theory and international relations. If these are not clearly described, a history of institutional changes can easily resemble the design on the jacket which is a jumble of the initial of economic symbols: G10, G5, C20, OSA, IIIS, etc. But this is a good short summary of the subject—perhaps the best—and will have to be considered seriously by teachers of international economics.

Professor Williamson's book takes the attempt by the Committee of Twenty (C20) of the International Monetary Fund to devise an international monetary constitution to replace the one that collapsed in 1971. Those are excellent sections on the reasons for the collapse of the previous arrangements, current controversies on international monetary economics, and on the virtues and defects of the current "non-system", which give the book a much wider interest than the mere chronicling of an episode in monetary diplomacy.

Williamson writes as one who was employed by the International Monetary Fund at the time, and saw the committee's workings from the inside. He creditably avoids revealing anything not in the public domain: "revelations, in so far as there is anything left to be revealed, come more appropriately from elder statesmen". But this book could probably not have been written except by an economist in this position, and is almost certainly the definitive account of the episode.

The title is perhaps over-dramatic, since the author does not regard recent changes as a disaster. He argues that the "adjustable peg" exchange rate system was inherently unstable, and that the "rules" of the Bretton Woods system has not meant the collapse of convertibility and international collaboration. However, floating has been "dirty" rather than "clean"; in other words, governments have not refrained from intervening in the foreign exchange market. Williamson believes that, in this situation, some clearer rules of the game are needed, and that a reserve system based on Special Drawing Rights would have been desirable.

He attributes the failure to some such agreement mainly to a clash of national interests between the inactive and conservative attitude of the secretariat set up to service the committee often had difficulty in engaged in what one delegate called "multilateral monetary diplomacy". In such a situation, "Williamson believes, international civil servants must identify the key issues and put up proposals likely to command assent.

Finance Ministers are not people with a vast range of responsibilities, and they cannot be expected to establish a mastery of the international monetary system sufficient to enable them to judge sensibly between alternative options, engage in intelligent discussion of whether a proposal is to be reformulated in a way that meets their vital concerns, or to work out a technical argument so elegant the necessity for a possible withdrawal as possible. Officials are supposed to be equally capable of undertaking these tasks, but if they abdicate their responsibilities by insisting on "keeping the options open" their Ministers, who decide the choices are that the result will be that the Ministers decide something silly or are unable to decide on anything at all (pp6-7).

It is a conclusion that rings true and is illuminated by an extract from the Nixon tapes.

*Boldman:* Did you get the report that the British floated the pound?

*President:* No. I don't think so.

*Haldeman:* You want a rundown?

*President:* No. I don't.

*Haldeman:* Flanigan urges you to show the wisdom of our refusal to consider convertibility until we get a new monetary system.

*President:* Good. I think he's right. It's too complicated for me to understand. (*unintelligible*) I understand. *Haldeman:* Burns is concerned about speculation about the lira.

*President:* Well I don't give a (*expletive deleted*) about the lira (p175)

One cannot help feeling that even British Ministers, faced with some of the technical issues discussed in these two books, may feel the same way as President Nixon.

**Graham Hall**


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# BOOKS

## Of cars and men

**Chrysler UK: A Corporation in Transition**
by Stephen Young and Neil Hood
Praeger, £18.40
ISBN 0 275 24820 2

The construction of a strip mill at Ravenscraig was part of a plan to shore up employment in Scotland and pave the way for reintroducing the motor vehicle industry there. The Rootes factory, built at Linwood and in operation by 1963, became the largest unit in the Rootes group, accounting for about one-third of those employed by the company in the United Kingdom. Rootes would have done better if it had been allowed to expand its existing factories or if it had spurned government inducements to expand elsewhere and turned itself into a producer of high quality cars along the lines of Volvo.

Almost everything was against Linwood as a seat of operations. It was distant from markets and sources of supply; management and labour were inexperienced; the models produced did not attract a sufficiently wide market or command high prices. To make matters worse, Rootes was badly organized and commercially insecure at a time when medium-scale producers were likely to be overwhelmed by a process of rationalization which would include the establishment of strong international linkages. For Chrysler the latter took the form of purchasing interests in Barreiros (Spain), Simca and Rootes, shortly after Linwood started up.

The interest in Rootes turned out to be a disaster. Losses were made in six of the succeeding 11 years and amounted to £70m in total by 1975. Private industry cannot be conducted along such lines. The famo duck rescue that followed is too recent to require description.

Too little has been written by economists about the processes of *industrial decline* to demonstrate how it can be foreseen, avoided or accommodated in such a way as to minimize waste and disruption. Young and Hood do not help us greatly with such problems. They are long on facts and short on analysis and speculation. So much so that it is sometimes a struggle to read the chronology of events and to try to distinguish what matters and what does not. In the vehicle industry destined to become the stamping ground of six firms with component factories in many countries, and assembly lines in those where labour is cheap and willing? This seems to be the recipe of Ford in Europe which has a record of success. Or is there other ways of organizing production more acceptable to governments, trade unions and the consumer?

We are frequently reminded in this book that success in vehicle manufacture depends on many things. So it does. But two things stand out: the need for good design and large amounts of capital. Table 5.11 (p158), difficult to interpret though it may be, seems to show that output a man expands strongly to investment; indeed, it might be concluded that an increase in capital a man leads to an even greater increase in the value of output a man a year. It so the moral is obvious. Chrysler UK is very low on capital. How much more investment will be needed to put it on a safe footing, £5,000 or £10,000 a man?

There may also be lessons for regional development from the experience of Chrysler. As in Northern Ireland, it might have been better at Linwood to have encouraged the manufacture of components rather than finished vehicles. Transport costs would have been cut, longer runs would have been possible and the potential of a European supplier built up. Setting up large factories in development areas may seem to be an easy way to cure unemployment but it is dangerous if the industries concerned are not expanding. If the future is in doubt there is much to be said for small enterprises, and possibly capital intensive ones. If they fail the capital is lost but the small number of jobs at stake give no cause for costly government intervention.

Young and Hood write with discernment about the industrial relations aspects of Chrysler's problems. At the company's proposals for the reform of industrial relations were far-reaching and imaginative, though not always recognized as such by the unions. It is refreshing to read that a court of inquiry concluded that "in terms of payments and related benefits this is an Agreement that reasonable men should be able to accept without difficulty" (Professor D. J. Robertson). But often the reverse was the case and heavy handed bargaining by management was counterproductive. In foreign markets labour unrest had destructive effects; Chrysler UK lost the American market to Japan because of this. The Avenger, said as the Plymouth Cricket (Heaven help us!) in America was replaced by the Japanese Colt disguised by a new grille to resemble the Avenger model and sold under the same American name!

The fatalistic view of the authors about Chrysler UK appears simply in the: "Too small to make money. It was always too large to close down". If so, on equally fatalistic reviewer concludes that it is going to be a very costly rescue.

**J. R. Parkinson**


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## Rubber money

**Primary Commodity Exports and Economic Development — Theory, Evidence and a Study of Malaysia**
by J. T. Thoburn
J. Wiley, 9.00
ISBN 0 471 99441 3

There is an influential school of thought in economics, dating from Smith and Mill, which regards a country's export performance as a major determinant of its rate of economic progress. This optimistic view of trade was challenged in the 1950s in the light of the historical experience of primary producers among today's less developed countries. Since then it has provided considerable fuel for economists attempting to decide between the rival viewpoints.

Dr Thoburn's contribution, which is based on the Malaysian experience with tin and rubber exports, is set within the "staple" tradition. In identifying and measuring the effects of exports on national income, many staple theorists have tended to work within a rather restrictive neo-classical version. One of the best known "tests" of this staple theory, that carried out on the Canadian wheat boom by Chambers and Gordon, measured the gains from trade solely in terms of increased rents and real wages accruing directly to those factors of production employed in the export sector:

Thorburn has a more catholic approach to the possible long-term costs and benefits of Malaysian exports of primary products. For both tin and rubber he has considered a number of possibilities, including the generation of employment and associated income distribution, the extent of forward and backward linkages determined in an input-output framework, and the amount of export income retained locally with its effects both on local investment and on final demand via wage employment. Many of his conclusions are of interest, though in a study which justifiably pays a great deal of attention to the impact of exports on the inducement to invest one might have hoped for a little more information on motivations and responses at the micro-level, especially in the indigenous rubber smallholding sector. I found particularly interesting the high proportion of capital expenditure in tin and rubber which historically has been financed from domestic resources rather than from capital inflow; the high proportion of capital expenditure for rubber and tin which has been local in character; the increase in the proportion of locally retained export income which has been the result of the rising proportion of profits paid in taxes; and the high average propensity to consume local products on the part of wage earners in tin and wage earners and smallholders in rubber. On the latter point, however, I would disagree with the author's claim to provide something meaningful in the way of export multipliers, in the absence of hard information on marginal propensities to save and import in different sectors.

There is a great deal of value in Thoburn's book which will be appreciated by development economists. The major criticism I would make concerns its organization and presentation. Some sections read up well, but others are hard to follow. Tables are not drawn together to provide a coherent story. Numerous lengthy footnotes accompany each chapter, and the whole is set in an unfortunate typeface which severely affects the ease with which the information in the book, and especially that contained in its many tables, may be assimilated.

**Barbara Ingham**

## Reviewers

**Martin Cave** is lecturer in economics at Brunel University;
**Howard Glennerster**, author of Social Service Budgets and Social Policy, is senior lecturer in social science and administration at the London School of Economics;
**Keith Harris**, reader in economics at Brunel University, is author of Economics of Research and Technology;
**J. R. Parkinson** is professor of economics at the University of Nottingham.


**MACROECONOMICS: THEORY, EVIDENCE AND POLICY**
*T. J. Westaway and T. G. Weyman-Jones*

This text is the latest addition to the Modern Economics Series, edited by David Pearce. The book is primarily intended for second year undergraduates, although the topics covered are taken to a more advanced level, making it invaluable to both final year undergraduates and postgraduates.

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Publication: October 1977

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